



## South Western Railway - Bangalore Division



### CBT Test Questions

|                       |                                                                                 |
|-----------------------|---------------------------------------------------------------------------------|
| Test Name             | JE / TRD in Level-6 25% PRQ in Electrical / TRD Department                      |
| Test Date             | 26-09-2024                                                                      |
| total no of questions | 110                                                                             |
| Venue                 | E-Merit<br>No.1 & 3, 2nd Floor, Maruthi Complex, RT Nagar,<br>Bangalore -560032 |

| Sno | Question                                                                     |                                                 |                                                 |                                               |                                               |                   |                |
|-----|------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------|----------------|
| 1   | Power block is granted to the OHE supervisors for heavy maintenance work by  |                                                 |                                                 |                                               |                                               |                   |                |
|     |                                                                              | Option A                                        | Option B                                        | Option C                                      | Option D                                      | Option E          | Correct Answer |
|     | English                                                                      | Section controller in consultation with the TPC | TPC in consultation with the section controller | Section controller with the permission of TPC | TPC with the permission of section controller | None of the above | D              |
| 2   | Why gap should be required between register arm tube & anti wind clamp strap |                                                 |                                                 |                                               |                                               |                   |                |
|     |                                                                              | Option A                                        | Option B                                        | Option C                                      | Option D                                      | Option E          | Correct Answer |
|     | English                                                                      | To avoid hard spot                              | hold the register To arm                        | To maintain proper height & stagger           | To hold steady arm                            | None of the above | A              |
| 3   | In a pure resistive circuit                                                  |                                                 |                                                 |                                               |                                               |                   |                |
|     |                                                                              | Option A                                        | Option B                                        | Option C                                      | Option D                                      | Option E          | Correct Answer |
|     | English                                                                      | Current lags behind the voltage by 90°          | Current leads the voltage by 90°                | Current can lead or lag the voltage by 90°    | Current is in phase with the voltage          | None of the above | D              |
| 4   | In one Tension length of OHE, maximum splices can be provided?               |                                                 |                                                 |                                               |                                               |                   |                |
|     |                                                                              | Option A                                        | Option B                                        | Option C                                      | Option D                                      | Option E          | Correct Answer |
|     | English                                                                      | 10                                              | 5                                               | 15                                            | 20                                            | None of the above | C              |

|    |                                                                                                                                                                                   |                                              |                                               |                                                        |                                                        |                   |                |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|-------------------|----------------|
| 5  | What is the name of the equipment used to convert digital information to analog information?                                                                                      |                                              |                                               |                                                        |                                                        |                   |                |
|    |                                                                                                                                                                                   | Option A                                     | Option B                                      | Option C                                               | Option D                                               | Option E          | Correct Answer |
|    | English                                                                                                                                                                           | Transducer                                   | Modem                                         | Digital Meter                                          | All of the above                                       | None of the above | B              |
| 6  | The height of cross over contact wire should be maintained 50 mm above from main line contact wire in entire danger zone at either side of obligatory location which falls within |                                              |                                               |                                                        |                                                        |                   |                |
|    |                                                                                                                                                                                   | Option A                                     | Option B                                      | Option C                                               | Option D                                               | Option E          | Correct Answer |
|    | English                                                                                                                                                                           | 5 m towards turn out                         | 10 m towards turn out                         | 15 m towards turn out                                  | 20 m towards turn out                                  | None of the above | B              |
| 7  | Maximum tension length is restricted upto 1500 m due to                                                                                                                           |                                              |                                               |                                                        |                                                        |                   |                |
|    |                                                                                                                                                                                   | Option A                                     | Option B                                      | Option C                                               | Option D                                               | Option E          | Correct Answer |
|    | English                                                                                                                                                                           | Maintain uniform tension in OHE conductors.  | Neutralize Versine effect                     | Blow-off in conductors within limit.                   | All of the above                                       | None of the above | E              |
| 8  | For 70/14 no. plate, numerator shows the km distance from starting station, while denominator shows the                                                                           |                                              |                                               |                                                        |                                                        |                   |                |
|    |                                                                                                                                                                                   | Option A                                     | Option B                                      | Option C                                               | Option D                                               | Option E          | Correct Answer |
|    | English                                                                                                                                                                           | serial no. of mast of 70 km. post of Up line | serial no. of mast of 70 km. post of DN line  | decimal km. distance of mast of 70 km. post of Up line | decimal km. distance of mast of 70 km. post of DN line | None of the above | B              |
| 9  | The distance between the centre line of the nearest track & supporting structure (i.e. crossing span) should not be less than in over line cases                                  |                                              |                                               |                                                        |                                                        |                   |                |
|    |                                                                                                                                                                                   | Option A                                     | Option B                                      | Option C                                               | Option D                                               | Option E          | Correct Answer |
|    | English                                                                                                                                                                           | Height of the supporting structure           | Height of the supporting structure + 6 meters | Height of the supporting structure + 5 meters          | Height of the supporting structure + 10 meters         | None of the above | B              |
| 10 | Regulated OHE is suitable for the speed                                                                                                                                           |                                              |                                               |                                                        |                                                        |                   |                |
|    |                                                                                                                                                                                   | Option A                                     | Option B                                      | Option C                                               | Option D                                               | Option E          | Correct Answer |
|    | English                                                                                                                                                                           | Above 100 KMPH                               | Less than 100 KMPH                            | Upto 80 KMPH                                           | Upto 90 KMPH                                           | None of the above | A              |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                    |                                                                                    |                                                                                       |                                                                                   |                   |                |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|----------------|
| 11 | Choose the correct sequences of action which followed by TPC in case of section not holding 25 kV power supply 1) Isolate the healthy section on adjacent track on the same route length 2) Identify the faulty section and isolate it after that. 3) In case mid section driver is not in communication and section controller advised for switching on the OHE supply, TPC should on the OHE supply 5 minutes after the OHE tripping. 4) Energize healthy section on the advice of section controller 5) Advice section controller about isolation of faulty & healthy section |                                                                    |                                                                                    |                                                                                       |                                                                                   |                   |                |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Option A                                                           | Option B                                                                           | Option C                                                                              | Option D                                                                          | Option E          | Correct Answer |
|    | English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2- 1- 5 - 4 - 3                                                    | 1- 2- 3 - 4 - 5                                                                    | 3 - 5- 4 - 1- 2                                                                       | 2- 1- 4 -5- 3                                                                     | None of the above | A              |
| 12 | In pure gravity foundation, the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                    |                                                                                    |                                                                                       |                                                                                   |                   |                |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Option A                                                           | Option B                                                                           | Option C                                                                              | Option D                                                                          | Option E          | Correct Answer |
|    | English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Bending movement on the mast is resist by the soil of base only    | Bending movement on the mast is resist by the soil of base and one side foundation | Bending movement on the mast is resist by the soil of base and two side of foundation | Bending movement on the mast is resist by the soil of both side of the foundation | None of the above | A              |
| 13 | In 3- pulley block type ATD, the counter weight is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                    |                                                                                    |                                                                                       |                                                                                   |                   |                |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Option A                                                           | Option B                                                                           | Option C                                                                              | Option D                                                                          | Option E          | Correct Answer |
|    | English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 400 kg                                                             | 465 kg                                                                             | 440 kg                                                                                | 665 kg                                                                            | None of the above | D              |
| 14 | In 3- pulley block type ATD (new), the measurement 'X' at 350 C is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                    |                                                                                    |                                                                                       |                                                                                   |                   |                |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Option A                                                           | Option B                                                                           | Option C                                                                              | Option D                                                                          | Option E          | Correct Answer |
|    | English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1250 mm                                                            | 1300 mm                                                                            | 1150 mm                                                                               | 1050 mm                                                                           | None of the above | B              |
| 15 | In 3-pulley block type ATD(new & old), the measurement 'Y' at 35 degree C is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                    |                                                                                    |                                                                                       |                                                                                   |                   |                |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Option A                                                           | Option B                                                                           | Option C                                                                              | Option D                                                                          | Option E          | Correct Answer |
|    | English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2600 mm                                                            | 2500 mm                                                                            | 2450 mm                                                                               | 2300 mm                                                                           | None of the above | D              |
| 16 | In 3- pulley block system ATD, the measurement 'X' is the distance between                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                    |                                                                                    |                                                                                       |                                                                                   |                   |                |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Option A                                                           | Option B                                                                           | Option C                                                                              | Option D                                                                          | Option E          | Correct Answer |
|    | English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Centre of 1 <sup>st</sup> fixed pulley to centre of movable pulley | Nearest face of the structure to fixed pulley centre                               | Nearest face of the structure to centre of movable pulley                             | Centre of middle fixed pulley to movable pulley centre                            | None of the above | D              |

|    |                                                                                                                                                                                                                        |                                                                 |                                                                                      |                                                                                                                        |                       |                   |                |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|----------------|
| 17 | Normally, power generation & transmission system of the supply authorities are of three phase type & incoming supply is taken in consecutive 25 kV ac traction sub stations is of different phase in rotation , due to |                                                                 |                                                                                      |                                                                                                                        |                       |                   |                |
|    |                                                                                                                                                                                                                        | Option A                                                        | Option B                                                                             | Option C                                                                                                               | Option D              | Option E          | Correct Answer |
|    | English                                                                                                                                                                                                                | Balance the traction load on each phase                         | Unbalance the traction load on each phase                                            | Obtained maximum power                                                                                                 | Minimise voltage drop | None of the above | A              |
| 18 | In side bearing foundation, the                                                                                                                                                                                        |                                                                 |                                                                                      |                                                                                                                        |                       |                   |                |
|    |                                                                                                                                                                                                                        | Option A                                                        | Option B                                                                             | Option C                                                                                                               | Option D              | Option E          | Correct Answer |
|    | English                                                                                                                                                                                                                | Bending movement on the mast is resist by the soil at base only | Bending movement on the mast is resist by the soil both sides of the foundation only | Bending movement on the mast is not only resisted by the soil at the base but also by the both sides of the foundation | All of above          | None of the above | C              |
| 19 | Size of [G] type portal                                                                                                                                                                                                |                                                                 |                                                                                      |                                                                                                                        |                       |                   |                |
|    |                                                                                                                                                                                                                        | Option A                                                        | Option B                                                                             | Option C                                                                                                               | Option D              | Option E          | Correct Answer |
|    | English                                                                                                                                                                                                                | 450 x 450 mm                                                    | 400 x 400 mm                                                                         | 600 x 600 mm                                                                                                           | 400 x 250 mm          | None of the above | D              |
| 20 | The material for armouring on cable is usually                                                                                                                                                                         |                                                                 |                                                                                      |                                                                                                                        |                       |                   |                |
|    |                                                                                                                                                                                                                        | Option A                                                        | Option B                                                                             | Option C                                                                                                               | Option D              | Option E          | Correct Answer |
|    | English                                                                                                                                                                                                                | Copper Tape                                                     | Galvanized steel wire                                                                | Cotton tape                                                                                                            | None of the above     | None of the above | B              |
| 21 | The code of practice for earthing is governed by                                                                                                                                                                       |                                                                 |                                                                                      |                                                                                                                        |                       |                   |                |
|    |                                                                                                                                                                                                                        | Option A                                                        | Option B                                                                             | Option C                                                                                                               | Option D              | Option E          | Correct Answer |
|    | English                                                                                                                                                                                                                | IS:3043                                                         | IS:4340                                                                              | IS:4540                                                                                                                | IS:4430               | None of the above | A              |
| 22 | Push up of OHE is depends upon                                                                                                                                                                                         |                                                                 |                                                                                      |                                                                                                                        |                       |                   |                |
|    |                                                                                                                                                                                                                        | Option A                                                        | Option B                                                                             | Option C                                                                                                               | Option D              | Option E          | Correct Answer |
|    | English                                                                                                                                                                                                                | Span length                                                     | Speed of the train                                                                   | Weight of the OHE                                                                                                      | All of the above      | None of the above | D              |

|    |                                                                                                                                                                                                 |                                                                |                                                                |                                                              |                                                                 |                   |                |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------|-------------------|----------------|
| 23 | In AC traction , maximum span length in unregulated OHE is                                                                                                                                      |                                                                |                                                                |                                                              |                                                                 |                   |                |
|    |                                                                                                                                                                                                 | Option A                                                       | Option B                                                       | Option C                                                     | Option D                                                        | Option E          | Correct Answer |
|    | English                                                                                                                                                                                         | 72 m.                                                          | 67.5 m.                                                        | 63 m.                                                        | 61 m.                                                           | None of the above | B              |
| 24 | Maximum deflection of mast at contact wire level due to wind pressure, is allowed                                                                                                               |                                                                |                                                                |                                                              |                                                                 |                   |                |
|    |                                                                                                                                                                                                 | Option A                                                       | Option B                                                       | Option C                                                     | Option D                                                        | Option E          | Correct Answer |
|    | English                                                                                                                                                                                         | 80 mm.                                                         | 70 mm.                                                         | 60 mm.                                                       | 40 mm.                                                          | None of the above | C              |
| 25 | What is the permissible interval of time between two Successive overloads?                                                                                                                      |                                                                |                                                                |                                                              |                                                                 |                   |                |
|    |                                                                                                                                                                                                 | Option A                                                       | Option B                                                       | Option C                                                     | Option D                                                        | Option E          | Correct Answer |
|    | English                                                                                                                                                                                         | 1hr                                                            | 2hrs                                                           | 3hrs                                                         | 4hrs                                                            | None of the above | A              |
| 26 | There are four type pollution zone based on preventive measures to reduce the incidence of insulator flashover. In medium polluted zone 'C', the periodicity of cleaning of insulator should be |                                                                |                                                                |                                                              |                                                                 |                   |                |
|    |                                                                                                                                                                                                 | Option A                                                       | Option B                                                       | Option C                                                     | Option D                                                        | Option E          | Correct Answer |
|    | English                                                                                                                                                                                         | Cleaning not require                                           | 3-4 times in a year                                            | Thrice a year (along with AOH & before monsoon)              | Once in a year                                                  | None of the above | C              |
| 27 | What is the reason for the shedding of active material of positive plates of cell?                                                                                                              |                                                                |                                                                |                                                              |                                                                 |                   |                |
|    |                                                                                                                                                                                                 | Option A                                                       | Option B                                                       | Option C                                                     | Option D                                                        | Option E          | Correct Answer |
|    | English                                                                                                                                                                                         | Under charging                                                 | fully charged                                                  | discharged                                                   | over charging                                                   | None of the above | D              |
| 28 | At obligatory structure of turnout, It is general practice to give encumbrance                                                                                                                  |                                                                |                                                                |                                                              |                                                                 |                   |                |
|    |                                                                                                                                                                                                 | Option A                                                       | Option B                                                       | Option C                                                     | Option D                                                        | Option E          | Correct Answer |
|    | English                                                                                                                                                                                         | 1.4 m. turnout OHE & 0.9 m main line OHE                       | 0.9 m. turnout OHE & 1.4 m main line OHE                       | 1.4 m. turnout OHE & 1.4 m main line OHE                     | d. 0.9 m. turnout OHE & 0.9 m main line OHE                     | None of the above | A              |
| 29 | What is the electrolyte condition when battery is under trickle charging condition?                                                                                                             |                                                                |                                                                |                                                              |                                                                 |                   |                |
|    |                                                                                                                                                                                                 | Option A                                                       | Option B                                                       | Option C                                                     | Option D                                                        | Option E          | Correct Answer |
|    | English                                                                                                                                                                                         | Small bubbles rise slowly from plate to surface of electrolyte | Bubbles are much larger and reach the surface at a higher rate | Small bubbles rise fast from plate to surface of electrolyte | Bubbles are much larger and reach the surface at a slower rate. | None of the above | A              |

|    |                                                                                                               |                                                                          |                                                                             |                                                                         |                                                                            |                   |                |
|----|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------|----------------|
| 30 | What is new cell voltage when it is fully charged condition?                                                  |                                                                          |                                                                             |                                                                         |                                                                            |                   |                |
|    |                                                                                                               | Option A                                                                 | Option B                                                                    | Option C                                                                | Option D                                                                   | Option E          | Correct Answer |
|    | English                                                                                                       | 2.6 to 2.75 Volts                                                        | 2.5 to 2.9 Volts                                                            | 2.6 to 2.9 Volts                                                        | 2.5 to 2.75 Volts                                                          | None of the above | D              |
| 31 | What is the temperature correction of hydrometer readings of specific gravity when temperature is above 27°C? |                                                                          |                                                                             |                                                                         |                                                                            |                   |                |
|    |                                                                                                               | Option A                                                                 | Option B                                                                    | Option C                                                                | Option D                                                                   | Option E          | Correct Answer |
|    | English                                                                                                       | For each 1 degree C above 27 degree C add 0.0007 to the observed reading | For each 1 degree C above 27 degree C deduct 0.0007 to the observed reading | For each 1 degree C above 27 degree C add 0.007 to the observed reading | For each 1 degree C above 27 degree C deduct 0.007 to the observed reading | None of the above | A              |
| 32 | what is the purpose of the rigid dropper?                                                                     |                                                                          |                                                                             |                                                                         |                                                                            |                   |                |
|    |                                                                                                               | Option A                                                                 | Option B                                                                    | Option C                                                                | Option D                                                                   | Option E          | Correct Answer |
|    | English                                                                                                       | To maintain encumbrance                                                  | to take the load of contact wire                                            | To distribute the current between catenary and contact wire             | To maintain height of contact wire.                                        | None of the above | A              |
| 33 | Which relay will act when short circuit occurs on OHE at farthest point of feeding zone?                      |                                                                          |                                                                             |                                                                         |                                                                            |                   |                |
|    |                                                                                                               | Option A                                                                 | Option B                                                                    | Option C                                                                | Option D                                                                   | Option E          | Correct Answer |
|    | English                                                                                                       | OCR                                                                      | DPR                                                                         | WPC                                                                     | Delta I relay                                                              | None of the above | B              |
| 34 | Places, where sparking takes place during current collection test. What may be the reason of sparking?        |                                                                          |                                                                             |                                                                         |                                                                            |                   |                |
|    |                                                                                                               | Option A                                                                 | Option B                                                                    | Option C                                                                | Option D                                                                   | Option E          | Correct Answer |
|    | English                                                                                                       | OHE is not proper                                                        | Track is not proper                                                         | Rolling stock is not proper                                             | All of the above or either (a) or(b) or (c)                                | None of the above | D              |

|    |                                                                                |                                                     |                                                                        |                                                                        |                                              |                   |                |
|----|--------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------|-------------------|----------------|
| 35 | In AC traction, why track bonding is done upto 1 KM from either side of the FP |                                                     |                                                                        |                                                                        |                                              |                   |                |
|    |                                                                                | Option A                                            | Option B                                                               | Option C                                                               | Option D                                     | Option E          | Correct Answer |
|    | English                                                                        | Beyond this distance return current goes through RC | Beyond this distance return current disappears into Earth              | Beyond this distance return current is not necessary to come upto TSS. | All of the above.                            | None of the above | D              |
| 36 | Voltage rating of LA is given by the formula?                                  |                                                     |                                                                        |                                                                        |                                              |                   |                |
|    |                                                                                | Option A                                            | Option B                                                               | Option C                                                               | Option D                                     | Option E          | Correct Answer |
|    | English                                                                        | $1.1 \times 0.8 \times$ line to line voltage        | $1.2 \times 0.9 \times$ line to line voltage                           | $1.1 \times 0.9 \times$ line to line voltage                           | $1.2 \times 0.8 \times$ line to line voltage | None of the above | A              |
| 37 | Expand IC ENGINE?                                                              |                                                     |                                                                        |                                                                        |                                              |                   |                |
|    |                                                                                | Option A                                            | Option B                                                               | Option C                                                               | Option D                                     | Option E          | Correct Answer |
|    | English                                                                        | Internal combustion engine                          | Integral Combustion Engine                                             | Internal control engine                                                | both A and B                                 | None of the above | A              |
| 38 | PG clamps from 'G' jumper location can be reused during POH?                   |                                                     |                                                                        |                                                                        |                                              |                   |                |
|    |                                                                                | Option A                                            | Option B                                                               | Option C                                                               | Option D                                     | Option E          | Correct Answer |
|    | English                                                                        | Check, clean & reused at same location              | Reused at other location after checks, clean in workshop and OHE depot | Reused after one year after checks, clean in workshop and OHE depot    | Can be reused if condition is okay           | None of the above | E              |
| 39 | Droppers are made out of                                                       |                                                     |                                                                        |                                                                        |                                              |                   |                |
|    |                                                                                | Option A                                            | Option B                                                               | Option C                                                               | Option D                                     | Option E          | Correct Answer |
|    | English                                                                        | Annealed copper                                     | Hard drawn copper                                                      | Cadmium copper                                                         | Bronze                                       | None of the above | B              |
| 40 | Distance of [C] jumpers from the nearest mast is                               |                                                     |                                                                        |                                                                        |                                              |                   |                |
|    |                                                                                | Option A                                            | Option B                                                               | Option C                                                               | Option D                                     | Option E          | Correct Answer |
|    | English                                                                        | 4.5 m                                               | 5.6 m                                                                  | 6.75 m                                                                 | 9 m                                          | None of the above | B              |

|    |                                                                                                                                             |                 |                 |                   |                 |                   |                |
|----|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-------------------|-----------------|-------------------|----------------|
| 41 | In AC traction, minimum height of contact wire at LC gate at support from rail level (regulated OHE) with 100 mm pre sag in contact wire is |                 |                 |                   |                 |                   |                |
|    |                                                                                                                                             | Option A        | Option B        | Option C          | Option D        | Option E          | Correct Answer |
|    | English                                                                                                                                     | 5.61 m          | 5.59 m          | 5.6 m             | 5.66            | None of the above | C              |
| 42 | If span length decreases, then variation in elasticity of OHE over a span                                                                   |                 |                 |                   |                 |                   |                |
|    |                                                                                                                                             | Option A        | Option B        | Option C          | Option D        | Option E          | Correct Answer |
|    | English                                                                                                                                     | Increases       | Decreases       | Remains same      | Cannot say      | None of the above | B              |
| 43 | No. of Strands & Each strand dia. Of 40 sq.mm Discharge Rod cable is                                                                        |                 |                 |                   |                 |                   |                |
|    |                                                                                                                                             | Option A        | Option B        | Option C          | Option D        | Option E          | Correct Answer |
|    | English                                                                                                                                     | 238 No, 0.04 mm | 248 No, 0.40 mm | 258 No, 0.48 mm   | 260 No, 0.44 mm | None of the above | B              |
| 44 | PME for TRD supervisor is done up to 45 years for                                                                                           |                 |                 |                   |                 |                   |                |
|    |                                                                                                                                             | Option A        | Option B        | Option C          | Option D        | Option E          | Correct Answer |
|    | English                                                                                                                                     | Once in 4 years | Once in 2 years | Once in 1 year    | Once in 5 years | None of the above | E              |
| 45 | Half average pay leave can be granted for _____ months at a time.                                                                           |                 |                 |                   |                 |                   |                |
|    |                                                                                                                                             | Option A        | Option B        | Option C          | Option D        | Option E          | Correct Answer |
|    | English                                                                                                                                     | 24 months       | 12 Months       | 6 Months          | 15 Months       | None of the above | C              |
| 46 | Leave not due for ____ days is eligible for railways employee in entire service                                                             |                 |                 |                   |                 |                   |                |
|    |                                                                                                                                             | Option A        | Option B        | Option C          | Option D        | Option E          | Correct Answer |
|    | English                                                                                                                                     | 360             | 180             | 240               | 200             | None of the above | A              |
| 47 | Material of AC catenary wire is                                                                                                             |                 |                 |                   |                 |                   |                |
|    |                                                                                                                                             | Option A        | Option B        | Option C          | Option D        | Option E          | Correct Answer |
|    | English                                                                                                                                     | Cadmium copper  | Annealed copper | Hard drawn copper | Bronze          | None of the above | A              |
| 48 | The distance of OHE section between FP & SP is called                                                                                       |                 |                 |                   |                 |                   |                |
|    |                                                                                                                                             | Option A        | Option B        | Option C          | Option D        | Option E          | Correct Answer |
|    | English                                                                                                                                     | Feeding length  | Feeding Zone    | Sector            | Sub Sector      | None of the above | C              |

|         |                                                                                                            |                                                                     |                                                                               |                                                                  |                   |          |                |
|---------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------|----------|----------------|
| 49      | On receipt of the first report about the breakdown by the TPC , the first & prime step is taken by the TPC |                                                                     |                                                                               |                                                                  |                   |          |                |
|         |                                                                                                            | Option A                                                            | Option B                                                                      | Option C                                                         | Option D          | Option E | Correct Answer |
| English | Direct TRD official to proceed to the site                                                                 | Inform Sr. DEE /TRD & other officers and seek their direction       | Switch off power supply to the affected lines & inform the section controller | Permitting movement of steam or diesel hauled train, if possible | None of the above | C        |                |
| 50      | What do you mean by Relative gradient of contact wire                                                      |                                                                     |                                                                               |                                                                  |                   |          |                |
|         |                                                                                                            | Option A                                                            | Option B                                                                      | Option C                                                         | Option D          | Option E | Correct Answer |
| English | Change in the height of contact wire in consecutive span                                                   | Change in the height of contact wire at beginning of tension length | Change in the height of contact wire in the middle of desired height          | All of the above                                                 | None of the above | A        |                |
| 51      | Insulated overlap is required for                                                                          |                                                                     |                                                                               |                                                                  |                   |          |                |
|         |                                                                                                            | Option A                                                            | Option B                                                                      | Option C                                                         | Option D          | Option E | Correct Answer |
| English | OHE sectioning purpose                                                                                     | To kept OHE in current collection zone at curve                     | To maintain height of OHE conductors                                          | All of the above                                                 | None of the above | A        |                |
| 52      | Tramway type OHE can be used for                                                                           |                                                                     |                                                                               |                                                                  |                   |          |                |
|         |                                                                                                            | Option A                                                            | Option B                                                                      | Option C                                                         | Option D          | Option E | Correct Answer |
| English | Main line                                                                                                  | Siding only                                                         | Wiring of turnouts                                                            | Depends upon load requirement.                                   | None of the above | D        |                |
| 53      | Normally, insulated overlap are employed at the location                                                   |                                                                     |                                                                               |                                                                  |                   |          |                |
|         |                                                                                                            | Option A                                                            | Option B                                                                      | Option C                                                         | Option D          | Option E | Correct Answer |
| English | SSP                                                                                                        | FP                                                                  | SP                                                                            | All of the above                                                 | None of the above | D        |                |
| 54      | Which type of turnout is best for main line                                                                |                                                                     |                                                                               |                                                                  |                   |          |                |
|         |                                                                                                            | Option A                                                            | Option B                                                                      | Option C                                                         | Option D          | Option E | Correct Answer |
| English | Overlap type                                                                                               | Knuckle type                                                        | Cross type                                                                    | Single span type                                                 | None of the above | A        |                |

|    |                                                                                                                      |                                                          |                                     |                                           |                                          |                   |                |
|----|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------|-------------------------------------------|------------------------------------------|-------------------|----------------|
| 55 | In AC traction , distance of 3rd dropper from 2nd dropper in 58.5 m span length                                      |                                                          |                                     |                                           |                                          |                   |                |
|    |                                                                                                                      | Option A                                                 | Option B                            | Option C                                  | Option D                                 | Option E          | Correct Answer |
|    | English                                                                                                              | 9 m                                                      | 6.75 m                              | 6 m                                       | 4.5 m                                    | None of the above | A              |
| 56 | Ratio of Cement, Sand, Ballast, in concrete for M-15 foundation is                                                   |                                                          |                                     |                                           |                                          |                   |                |
|    |                                                                                                                      | Option A                                                 | Option B                            | Option C                                  | Option D                                 | Option E          | Correct Answer |
|    | English                                                                                                              | 1:02:05                                                  | 1:02:04                             | 1:03:06                                   | 1:02:03                                  | None of the above | B              |
| 57 | Non linear resistance is the property of thyrite material i.e. when current increases than resistance of the thyrite |                                                          |                                     |                                           |                                          |                   |                |
|    |                                                                                                                      | Option A                                                 | Option B                            | Option C                                  | Option D                                 | Option E          | Correct Answer |
|    | English                                                                                                              | Increases                                                | Decreases                           | Remains same                              | Can not say                              | None of the above | B              |
| 58 | Why it is better to use Oliver-G for Current Collection Test                                                         |                                                          |                                     |                                           |                                          |                   |                |
|    |                                                                                                                      | Option A                                                 | Option B                            | Option C                                  | Option D                                 | Option E          | Correct Answer |
|    | English                                                                                                              | mirror is not required                                   | No work man is required.            | Indicates exact spark location            | Both a & c.                              | None of the above | C              |
| 59 | Maximum speed under section insulator with facing end runner at the direction of traffic                             |                                                          |                                     |                                           |                                          |                   |                |
|    |                                                                                                                      | Option A                                                 | Option B                            | Option C                                  | Option D                                 | Option E          | Correct Answer |
|    | English                                                                                                              | 110 KMPH                                                 | 80 KMPH                             | 60 KMPH                                   | 40 KMPH                                  | None of the above | B              |
| 60 | Cantilever assembly, both insulators are located nearer to the mast                                                  |                                                          |                                     |                                           |                                          |                   |                |
|    |                                                                                                                      | Option A                                                 | Option B                            | Option C                                  | Option D                                 | Option E          | Correct Answer |
|    | English                                                                                                              | To avoid contamination due to steam & diesel locomotives | To hold the tubes in proper tension | To Cantilever assembly is swivelling type | To avoid transferring the weights on OHE | None of the above | A              |
| 61 | Minimum working clearance (danger zone) for 25 kV AC is                                                              |                                                          |                                     |                                           |                                          |                   |                |
|    |                                                                                                                      | Option A                                                 | Option B                            | Option C                                  | Option D                                 | Option E          | Correct Answer |
|    | English                                                                                                              | 500 mm                                                   | 1.0 m                               | 2.0 m                                     | 3.0 m                                    | None of the above | C              |

|    |                                                                                                                              |                                                |                                                |                                                        |                            |                   |                |
|----|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|--------------------------------------------------------|----------------------------|-------------------|----------------|
| 62 | Before granting power block in the section, the longitudinal protection and lateral protection in the section is arranged by |                                                |                                                |                                                        |                            |                   |                |
|    |                                                                                                                              | Option A                                       | Option B                                       | Option C                                               | Option D                   | Option E          | Correct Answer |
|    | English                                                                                                                      | TPC                                            | Section controller                             | TNL                                                    | Station master             | None of the above | D              |
| 63 | [[F]] jumpers is provided in both anchoring span of insulated overlap between                                                |                                                |                                                |                                                        |                            |                   |                |
|    |                                                                                                                              | Option A                                       | Option B                                       | Option C                                               | Option D                   | Option E          | Correct Answer |
|    | English                                                                                                                      | Catenary & contact wire of OOR(out of run) OHE | OOR (out of run ) OHE & IR( in run ) OHE       | Catenary & contact wire of IR OHE                      | Across cut in insulator    | None of the above | B              |
| 64 | Side bearing foundation is used, where soil bearing pressure is more than                                                    |                                                |                                                |                                                        |                            |                   |                |
|    |                                                                                                                              | Option A                                       | Option B                                       | Option C                                               | Option D                   | Option E          | Correct Answer |
|    | English                                                                                                                      | 1000 kgf / m <sup>2</sup>                      | 5000 kgf / m <sup>2</sup>                      | 10,000 kgf / m <sup>2</sup>                            | 25000 kgf / m <sup>2</sup> | None of the above | C              |
| 65 | Which factor affects the stagger of contact wire?                                                                            |                                                |                                                |                                                        |                            |                   |                |
|    |                                                                                                                              | Option A                                       | Option B                                       | Option C                                               | Option D                   | Option E          | Correct Answer |
|    | English                                                                                                                      | Blow-off                                       | Versine                                        | Track slewing                                          | All of the above           | None of the above | D              |
| 66 | Black cotton (BC) soil is having peculiar characteristics, i.e.                                                              |                                                |                                                |                                                        |                            |                   |                |
|    |                                                                                                                              | Option A                                       | Option B                                       | Option C                                               | Option D                   | Option E          | Correct Answer |
|    | English                                                                                                                      | When the soil is wet it swells                 | When the soil is wet it exerts upward pressure | When the soil is dry, cracks are developed in the soil | All of the above           | None of the above | D              |
| 67 | Implantation is also known as                                                                                                |                                                |                                                |                                                        |                            |                   |                |
|    |                                                                                                                              | Option A                                       | Option B                                       | Option C                                               | Option D                   | Option E          | Correct Answer |
|    | English                                                                                                                      | Skip distance                                  | Setting distance                               | Clear span                                             | Track separation           | None of the above | B              |
| 68 | Implantation at platform (B.G.) is                                                                                           |                                                |                                                |                                                        |                            |                   |                |
|    |                                                                                                                              | Option A                                       | Option B                                       | Option C                                               | Option D                   | Option E          | Correct Answer |
|    | English                                                                                                                      | 4.75 m                                         | 4.00 m                                         | 5.20 m                                                 | 3.0 m                      | None of the above | A              |

|    |                                                                                  |                                                  |                                                             |                           |                                         |                   |                |
|----|----------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------|---------------------------|-----------------------------------------|-------------------|----------------|
| 69 | Tie rod insulator is used in isolator switch assembly in between                 |                                                  |                                                             |                           |                                         |                   |                |
|    |                                                                                  | Option A                                         | Option B                                                    | Option C                  | Option D                                | Option E          | Correct Answer |
|    | English                                                                          | Operating rod & moving blade                     | Operating rod & fix contact                                 | Switch body & fix contact | Switch body & moving contact            | None of the above | A              |
| 70 | what is the tension provided in anti creep wire?                                 |                                                  |                                                             |                           |                                         |                   |                |
|    |                                                                                  | Option A                                         | Option B                                                    | Option C                  | Option D                                | Option E          | Correct Answer |
|    | English                                                                          | 0 kgs                                            | 1300 kgs                                                    | 2000 kgs                  | 1000 kgs                                | None of the above | D              |
| 71 | Change of the height of the contact wire to be achieved very gradually, to avoid |                                                  |                                                             |                           |                                         |                   |                |
|    |                                                                                  | Option A                                         | Option B                                                    | Option C                  | Option D                                | Option E          | Correct Answer |
|    | English                                                                          | Loose contact between contact wire & pantograph. | Exert excessive pressure on the contact wire by pantograph. | Poor current collection.  | All of the above.                       | None of the above | D              |
| 72 | Conductivity of cadmium copper in terms of equivalent copper will be             |                                                  |                                                             |                           |                                         |                   |                |
|    |                                                                                  | Option A                                         | Option B                                                    | Option C                  | Option D                                | Option E          | Correct Answer |
|    | English                                                                          | 0.8                                              | 0.7                                                         | 0.45                      | 0.3                                     | None of the above | A              |
| 73 | In locally arranged power block, supply of the siding or yard is shut down by    |                                                  |                                                             |                           |                                         |                   |                |
|    |                                                                                  | Option A                                         | Option B                                                    | Option C                  | Option D                                | Option E          | Correct Answer |
|    | English                                                                          | TPC                                              | Section controller                                          | Yard master               | OHE in charge, who required power block | None of the above | D              |
| 74 | Electrical crossing between 66 KV shall have to be by means of                   |                                                  |                                                             |                           |                                         |                   |                |
|    |                                                                                  | Option A                                         | Option B                                                    | Option C                  | Option D                                | Option E          | Correct Answer |
|    | English                                                                          | Underground cable                                | Overhead conductors                                         | Either 'A' or 'B'         | None of the above                       | None of the above | A              |
| 75 | Horizontal clearance between two runners of ac section insulator is              |                                                  |                                                             |                           |                                         |                   |                |
|    |                                                                                  | Option A                                         | Option B                                                    | Option C                  | Option D                                | Option E          | Correct Answer |
|    | English                                                                          | 500 mm                                           | 460 mm                                                      | 320 mm                    | 200 mm                                  | None of the above | B              |

|    |                                                                                                              |                                                                             |                                                                                                                                     |                                                                                                                                                                                        |                              |                   |                |
|----|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------|----------------|
| 76 | When more than one tower wagons are working in the same block section, which instructions should be followed |                                                                             |                                                                                                                                     |                                                                                                                                                                                        |                              |                   |                |
|    |                                                                                                              | Option A                                                                    | Option B                                                                                                                            | Option C                                                                                                                                                                               | Option D                     | Option E          | Correct Answer |
|    | English                                                                                                      | T/W's should not move at speed more than 10 kmph & should be ready to stop. | Both T/W's, when entering or clearing the block section, both T/W's should maintain a minimum distance of 120 meters to each other. | After completion of the work the official in- charge of the T/W, who entered last in the section shall certify at the clearing station about clearance of the section by the last T/W. | All of the above.            | None of the above | B              |
| 77 | Permit To Work (PTW) is essential for working on 25 kV AC OHE or near OHE within                             |                                                                             |                                                                                                                                     |                                                                                                                                                                                        |                              |                   |                |
|    |                                                                                                              | Option A                                                                    | Option B                                                                                                                            | Option C                                                                                                                                                                               | Option D                     | Option E          | Correct Answer |
|    | English                                                                                                      | 1m                                                                          | 2m                                                                                                                                  | 3m                                                                                                                                                                                     | 4m                           | None of the above | B              |
| 78 | At curve track versine is measured from the                                                                  |                                                                             |                                                                                                                                     |                                                                                                                                                                                        |                              |                   |                |
|    |                                                                                                              | Option A                                                                    | Option B                                                                                                                            | Option C                                                                                                                                                                               | Option D                     | Option E          | Correct Answer |
|    | English                                                                                                      | Inner edge of the outer rail                                                | Outer edge of the outer rail                                                                                                        | Inner edge of the inner rail                                                                                                                                                           | Outer edge of the inner rail | None of the above | A              |
| 79 | The displacement of contact wire with respect to the pantograph axis is called                               |                                                                             |                                                                                                                                     |                                                                                                                                                                                        |                              |                   |                |
|    |                                                                                                              | Option A                                                                    | Option B                                                                                                                            | Option C                                                                                                                                                                               | Option D                     | Option E          | Correct Answer |
|    | English                                                                                                      | Implantation                                                                | Stagger of contact wire                                                                                                             | Gradient of contact wire                                                                                                                                                               | Sag                          | None of the above | B              |
| 80 | Diameter of each strand of AC catenary wire is                                                               |                                                                             |                                                                                                                                     |                                                                                                                                                                                        |                              |                   |                |
|    |                                                                                                              | Option A                                                                    | Option B                                                                                                                            | Option C                                                                                                                                                                               | Option D                     | Option E          | Correct Answer |
|    | English                                                                                                      | 2.92 mm                                                                     | 2.42 mm                                                                                                                             | 2.11 mm                                                                                                                                                                                | 2.32 mm                      | None of the above | C              |

|    |                                                                                         |                                           |                                       |                                             |                                                 |                   |                |
|----|-----------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------|---------------------------------------------|-------------------------------------------------|-------------------|----------------|
| 81 | What is incorrect for a 40AH capacity battery?                                          |                                           |                                       |                                             |                                                 |                   |                |
|    |                                                                                         | Option A                                  | Option B                              | Option C                                    | Option D                                        | Option E          | Correct Answer |
|    | English                                                                                 | 1 ampere for 40 hours                     | 40 ampere for 1 hours                 | 4 ampere for 10 hours                       | A rate of current supply as 40 ampere per hour. | None of the above | D              |
| 82 | What is the rating of 132KV CT?                                                         |                                           |                                       |                                             |                                                 |                   |                |
|    |                                                                                         | Option A                                  | Option B                              | Option C                                    | Option D                                        | Option E          | Correct Answer |
|    | English                                                                                 | 132KV, 400-200/5A, 30VA                   | 132KV, 200-100/5A, 30VA               | 132KV, 300-200/5A, 30VA                     | 132KV, 600-200/5A, 30VA                         | None of the above | A              |
| 83 | What is the purpose of HV CB in TSS?                                                    |                                           |                                       |                                             |                                                 |                   |                |
|    |                                                                                         | Option A                                  | Option B                              | Option C                                    | Option D                                        | Option E          | Correct Answer |
|    | English                                                                                 | To isolate Transformer Bay from 132KV end | For switching operation on 132KV side | To protect the transformer in case of fault | All of the above                                | None of the above | D              |
| 84 | What is the purpose of Turret CT?                                                       |                                           |                                       |                                             |                                                 |                   |                |
|    |                                                                                         | Option A                                  | Option B                              | Option C                                    | Option D                                        | Option E          | Correct Answer |
|    | English                                                                                 | To insulate the terminals from tank       | For differential protection           | For over current protection                 | Both a& b                                       | None of the above | B              |
| 85 | What is the measuring unit of contact resistance?                                       |                                           |                                       |                                             |                                                 |                   |                |
|    |                                                                                         | Option A                                  | Option B                              | Option C                                    | Option D                                        | Option E          | Correct Answer |
|    | English                                                                                 | Micro ohms                                | Ohms                                  | Kilo ohms                                   | Mega ohms                                       | None of the above | A              |
| 86 | What is the meter used for inductance measurement of reactors?                          |                                           |                                       |                                             |                                                 |                   |                |
|    |                                                                                         | Option A                                  | Option B                              | Option C                                    | Option D                                        | Option E          | Correct Answer |
|    | English                                                                                 | LCR meter                                 | inductance meter                      | both a&b                                    | THD meter                                       | None of the above | C              |
| 87 | How many number of 132KV DPLs available in TSS for standard arrangement for single bay? |                                           |                                       |                                             |                                                 |                   |                |
|    |                                                                                         | Option A                                  | Option B                              | Option C                                    | Option D                                        | Option E          | Correct Answer |
|    | English                                                                                 | 2 Nos                                     | 4 Nos                                 | 5 Nos                                       | 6 nos                                           | None of the above | A              |

|    |                                                                                                                                                                                              |                                 |                                 |                                 |                                     |                   |                |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------------|-------------------|----------------|
| 88 | The no. plate of OHE structures for DN line will be such as                                                                                                                                  |                                 |                                 |                                 |                                     |                   |                |
|    |                                                                                                                                                                                              | Option A                        | Option B                        | Option C                        | Option D                            | Option E          | Correct Answer |
|    | English                                                                                                                                                                                      | 75/12, 75/13, 75/14, ----- etc. | 75/12, 75/14, 75/16, ----- etc. | 75/13, 75/15, 75/17, ----- etc. | 75/13A, 75/15A, 75/17A, ---- --etc. | None of the above | B              |
| 89 | There are four type pollution zone based on preventive measures to reduce the incidence of insulator flashover. In non polluted zone 'A', the periodicity of cleaning of insulator should be |                                 |                                 |                                 |                                     |                   |                |
|    |                                                                                                                                                                                              | Option A                        | Option B                        | Option C                        | Option D                            | Option E          | Correct Answer |
|    | English                                                                                                                                                                                      | Cleaning not require            | Along with AOH                  | Twice a year, once with AOH     | Thrice in a year                    | None of the above | B              |
| 90 | The Caution Board that must be displayed on FOB/ROBs                                                                                                                                         |                                 |                                 |                                 |                                     |                   |                |
|    |                                                                                                                                                                                              | Option A                        | Option B                        | Option C                        | Option D                            | Option E          | Correct Answer |
|    | English                                                                                                                                                                                      | Caution 25000 volts.            | DJ opens board                  | Lower Panto                     | Danger Men working.                 | None of the above | A              |
| 91 | In AC traction, spacing of [A] dropper ( 1st dropper from the support ) is                                                                                                                   |                                 |                                 |                                 |                                     |                   |                |
|    |                                                                                                                                                                                              | Option A                        | Option B                        | Option C                        | Option D                            | Option E          | Correct Answer |
|    | English                                                                                                                                                                                      | 4.50 m                          | 2.50 m                          | 2.25 m                          | 2.00 m                              | None of the above | C              |
| 92 | Minimum earth resistance when not specified should not be more than                                                                                                                          |                                 |                                 |                                 |                                     |                   |                |
|    |                                                                                                                                                                                              | Option A                        | Option B                        | Option C                        | Option D                            | Option E          | Correct Answer |
|    | English                                                                                                                                                                                      | 9 ohm                           | 10 ohm                          | 5 ohm                           | 2.5 ohm                             | None of the above | B              |
| 93 | Periodicity of contact wire ending clamp replacement by new one is                                                                                                                           |                                 |                                 |                                 |                                     |                   |                |
|    |                                                                                                                                                                                              | Option A                        | Option B                        | Option C                        | Option D                            | Option E          | Correct Answer |
|    | English                                                                                                                                                                                      | 4 years                         | 9 years in alternate POH        | 16 years                        | 8 years                             | None of the above | B              |
| 94 | What probable defects you would suspect to a given insulator? 1) Dirty surface 2) broken sheds 3) Crack 4) Prohibited make & batch 5) Flash 6) Gl cap.                                       |                                 |                                 |                                 |                                     |                   |                |
|    |                                                                                                                                                                                              | Option A                        | Option B                        | Option C                        | Option D                            | Option E          | Correct Answer |
|    | English                                                                                                                                                                                      | 1,3,5                           | 2,4,6                           | 1,2,3,5,6                       | all of these.                       | None of the above | D              |

|     |                                                                                                                                                            |                                          |                                           |                                                                     |                                |                   |                |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------|---------------------------------------------------------------------|--------------------------------|-------------------|----------------|
| 95  | Winding is said in good health, if the value of Polarization Index is-                                                                                     |                                          |                                           |                                                                     |                                |                   |                |
|     |                                                                                                                                                            | Option A                                 | Option B                                  | Option C                                                            | Option D                       | Option E          | Correct Answer |
|     | English                                                                                                                                                    | Less than 1                              | More than 2                               | Value of Polarization Index does not indicate winding condition.    | More than 1, less than 2.      | None of the above | B              |
| 96  | Object of the AOH is                                                                                                                                       |                                          |                                           |                                                                     |                                |                   |                |
|     |                                                                                                                                                            | Option A                                 | Option B                                  | Option C                                                            | Option D                       | Option E          | Correct Answer |
|     | English                                                                                                                                                    | At random checking                       | Parts should be as new as first installed | To rectify the defects ,which are developed during one year service | All of the above               | None of the above | C              |
| 97  | The fittings, which is used to transfer the weight of contact wire to the catenary wire is called                                                          |                                          |                                           |                                                                     |                                |                   |                |
|     |                                                                                                                                                            | Option A                                 | Option B                                  | Option C                                                            | Option D                       | Option E          | Correct Answer |
|     | English                                                                                                                                                    | Section insulator                        | Jumpers                                   | Cantilever assembly                                                 | Droppers                       | None of the above | D              |
| 98  | Minimum distance of OHE structure in advance of a signal                                                                                                   |                                          |                                           |                                                                     |                                |                   |                |
|     |                                                                                                                                                            | Option A                                 | Option B                                  | Option C                                                            | Option D                       | Option E          | Correct Answer |
|     | English                                                                                                                                                    | 10 m                                     | 20 m                                      | 30 m                                                                | 50 m                           | None of the above | A              |
| 99  | When equal encumbrance 1.4 m. is given at both OHE supports & 100 mm pre sag in contact wire, what will be the length of 3rd dropper in 72 m span length ? |                                          |                                           |                                                                     |                                |                   |                |
|     |                                                                                                                                                            | Option A                                 | Option B                                  | Option C                                                            | Option D                       | Option E          | Correct Answer |
|     | English                                                                                                                                                    | 767 mm                                   | 763 mm                                    | 761 mm                                                              | 758 mm                         | None of the above | A              |
| 100 | Who functions as Electrical Inspector to Government of India in the Indian Railways?                                                                       |                                          |                                           |                                                                     |                                |                   |                |
|     |                                                                                                                                                            | Option A                                 | Option B                                  | Option C                                                            | Option D                       | Option E          | Correct Answer |
|     | English                                                                                                                                                    | PRINCIPLE Chief Electrical Loco Engineer | Chief Electrical Services Engineer        | PRINCIPLE Chief Electrical Engineer                                 | PRINCIPLE Chief Safety Officer | None of the above | C              |

|     |                                                                                           |                   |                    |                |                      |          |
|-----|-------------------------------------------------------------------------------------------|-------------------|--------------------|----------------|----------------------|----------|
| 101 | West Bengal falls under which region of Official Language Rules                           |                   |                    |                |                      |          |
|     | पश्चिम बंगाल राजभाषा नियमों के किस क्षेत्र के अंतर्गत आता है?                             |                   |                    |                |                      |          |
|     |                                                                                           | Option A          | Option B           | Option C       | Option D             | Option E |
|     | English                                                                                   | A Region          | B Region           | C Region       | D region             | None     |
| 102 | Hindi                                                                                     | एक क्षेत्र        | बी क्षेत्र         | सी क्षेत्र     | डी क्षेत्र           | कोई नहीं |
|     | C                                                                                         |                   |                    |                |                      |          |
|     | How many Lok Sabha members are there in the Parliamentary Committee on Official Language? |                   |                    |                |                      |          |
|     | संसदीय राजभाषा समिति में कितने लोकसभा सदस्य होते हैं?                                     |                   |                    |                |                      |          |
|     |                                                                                           | Option A          | Option B           | Option C       | Option D             | Option E |
|     | English                                                                                   | 5                 | 10                 | 15             | 20                   | None     |
| 103 | Hindi                                                                                     | 5                 | 10                 | 15             | 20                   | कोई नहीं |
|     | D                                                                                         |                   |                    |                |                      |          |
|     | What is the lumpsum award for passing Hindi Typewriting Examination by private study ?    |                   |                    |                |                      |          |
|     | निजी अध्ययन द्वारा हिंदी टंकण परीक्षा उत्तीर्ण करने पर एकमुश्त पुरस्कार क्या है?          |                   |                    |                |                      |          |
|     |                                                                                           | Option A          | Option B           | Option C       | Option D             | Option E |
|     | English                                                                                   | 1600              | 1500               | 1200           | 2400                 | None     |
| 104 | Hindi                                                                                     | 1600              | 1500               | 1200           | 2400                 | कोई नहीं |
|     | A                                                                                         |                   |                    |                |                      |          |
|     | How many Hindi courses are prescribed for Central Govt. Employees?                        |                   |                    |                |                      |          |
|     | केंद्र सरकार के लिए कितने हिंदी पाठ्यक्रम निर्धारित हैं? कर्मचारी?                        |                   |                    |                |                      |          |
|     |                                                                                           | Option A          | Option B           | Option C       | Option D             | Option E |
|     | English                                                                                   | 2                 | 1                  | 5              | 4                    | None     |
| 105 | Hindi                                                                                     | 2                 | 1                  | 5              | 4                    | कोई नहीं |
|     | D                                                                                         |                   |                    |                |                      |          |
|     | How many languages are to be used in the forms to be used by the general public?          |                   |                    |                |                      |          |
|     | आम जनता द्वारा उपयोग किये जाने वाले प्रपत्रों में कितनी भाषाओं का उपयोग किया जाना चाहिए?  |                   |                    |                |                      |          |
|     |                                                                                           | Option A          | Option B           | Option C       | Option D             | Option E |
|     | English                                                                                   | 2                 | 1                  | 4              | 3                    | None     |
| 106 | Hindi                                                                                     | 2                 | 1                  | 4              | 3                    | कोई नहीं |
|     | D                                                                                         |                   |                    |                |                      |          |
|     | In a year how frequently Hindi Workshop, should be conducted ?                            |                   |                    |                |                      |          |
|     | एक वर्ष में कितनी बार हिन्दी कार्यशाला आयोजित की जानी चाहिए?                              |                   |                    |                |                      |          |
|     |                                                                                           | Option A          | Option B           | Option C       | Option D             | Option E |
|     | English                                                                                   | Once in quarter   | once in half year  | Once in a year | once in three months | None     |
| 107 | Hindi                                                                                     | तिमाही में एक बार | आधे साल में एक बार | साल में एक बार | तीन महीने में एक बार | कोई नहीं |
|     | A                                                                                         |                   |                    |                |                      |          |

|     |                                                                                                 |              |                  |            |             |          |
|-----|-------------------------------------------------------------------------------------------------|--------------|------------------|------------|-------------|----------|
| 107 | Nepali Language is the State Language of which state?                                           |              |                  |            |             |          |
|     | नेपाली भाषा किस राज्य की राज्य भाषा है?                                                         |              |                  |            |             |          |
|     |                                                                                                 | Option A     | Option B         | Option C   | Option D    | Option E |
|     | English                                                                                         | Sikkim       | Nepal            | Jharkhand  | Assam       | None     |
| 108 | Hindi                                                                                           | सिक्किम      | नेपाल            | झारखंड     | असम         | कोई नहीं |
|     | A                                                                                               |              |                  |            |             |          |
|     | How many Lok Sabha Members are there in Parliamentary Committee on Official Language?           |              |                  |            |             |          |
|     | संसदीय राजभाषा समिति में कितने लोकसभा सदस्य होते हैं?                                           |              |                  |            |             |          |
|     |                                                                                                 | Option A     | Option B         | Option C   | Option D    | Option E |
|     | English                                                                                         | 10           | 30               | 15         | 20          | None     |
| 109 | Hindi                                                                                           | 10           | 30               | 15         | 20          | कोई नहीं |
|     | D                                                                                               |              |                  |            |             |          |
|     | What is the final exam prescribed for the staff of central government offices of clerical staff |              |                  |            |             |          |
|     | केंद्र सरकार के कार्यालयों के लिपिक कर्मचारियों के लिए निर्धारित अंतिम परीक्षा क्या है?         |              |                  |            |             |          |
|     |                                                                                                 | Option A     | Option B         | Option C   | Option D    | Option E |
|     | English                                                                                         | Pragya       | Prabodh          | Praveen    | Parangath   | None     |
| 110 | Hindi                                                                                           | प्रज्ञा      | प्रबोध           | प्रवीण     | पारंगथ      | कोई नहीं |
|     | A                                                                                               |              |                  |            |             |          |
|     | Who is the Senior Rajbhasha Adhikari of Rail Wheel Factory ?                                    |              |                  |            |             |          |
|     | रेल पहिया कारखाना के वरिष्ठ राजभाषा अधिकारी कौन हैं?                                            |              |                  |            |             |          |
|     |                                                                                                 | Option A     | Option B         | Option C   | Option D    | Option E |
|     | English                                                                                         | Tirmal Singh | Supromani Swamy  | Ravi Kumar | Alok Tiwari | None     |
|     | Hindi                                                                                           | तिर्मल सिंह  | सुप्रोमणि स्वामी | रवि कुमार  | आलोक तिवारी | कोई नहीं |
|     | E                                                                                               |              |                  |            |             |          |