

Question Paper for selection to the post of JE/IT/UBL with Answer key, for the exam conducted on 21.9.2020

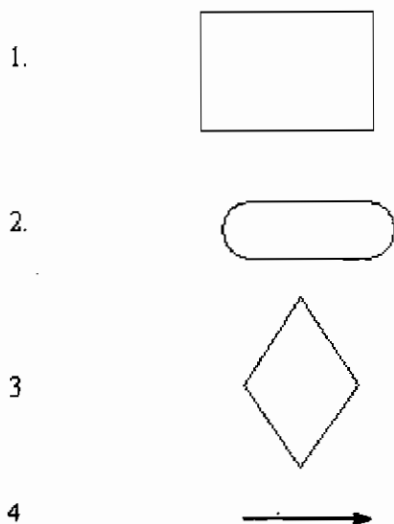
1) Data maintenance can be defined as:

- A) processes and/or procedures designed to convert data into information
- B) processes and/or procedures which preserve the correctness, accuracy, validity and integrity of all stored data
- C) processes and/or procedures designed to convert data from one data format to another data format.
- D) processes and/or procedures designed to determine the appropriateness and relevancy of data

2) Data processing performed by several separate computers/computer networks, at several different locations, linked by a communications facility is known as:

- a) centralised processing
- b) distributed processing
- c) batch processing
- d) on-line processing

3) The following symbols are commonly used in entity-relationship diagrams:



What does each of the symbols represent?

- a) 1: Entity, 2: Attribute, 3: Relationship, 4: Connection/Link

- b) 1: Relationship, 2: Connection/Link, 3: Entity, 4: Attribute
- c) 1: Attribute, 2: Relationship, 3: Connection/Link, 4: Entity
- d) 1: Connection/Link 2: Entity, 3: Attribute, 4: Relationship

4) Consider the following statements:

Statement A

Using a data orientated approach data are considered to be "owned" by particular "application specific" groups within a company/organisation

Statement B

Using a file orientated approach data are considered to be a company/organisation asset - a shared resource for all authorised organisational users, and their respective applications.

Which of the following combinations is correct?

- a) Statement A is True and Statement B is False.
- b) Statement A is False and Statement B is False.
- c) Statement A is True and Statement B is True.
- d) Statement A is False and Statement B is True.

5) Which ONE of the following provides the most accurate definition of a database?

- a) a resource that can be used to collect, organise and store data as a single unit
- b) a resource that can be used to design and develop a website
- c) a resource that can be used to analyse and manipulate numerical data
- d) a resource that can be used to produce word based documents

6) A computer based accounting information systems requires the **development and maintenance** of a "chart of accounts."

What is a chart of accounts?

- a) a list of accounts in the general ledger

- b) a representation of the management structure of a company/organisation
- c) a system of alpha and numeric characters used to represent accounting data/information
- d) a map of the company/organisation

7) When drawing a flowchart, flows should generally commence in the top left corner and flow from left to right and from top to bottom.

This flowcharting convention is commonly known as:

- a) the consistency rule
- b) the narrative rule
- c) the sandwich rule
- d) the direction rule

8) The decoded instruction is stored in _____

- a) IR
- b) PC
- c) Registers
- d) MDR

9) The instruction -> Add LOCA, R0 does _____

- a) Adds the value of LOCA to R0 and stores in the temp register
- b) Adds the value of R0 to the address of LOCA
- c) Adds the values of both LOCA and R0 and stores it in R0
- d) Adds the value of LOCA with a value in accumulator and stores it in R0

10) Which registers can interact with the secondary storage?

- a) MAR
- b) PC
- c) IR
- d) R0

11) Which of the register/s of the processor is/are connected to Memory Bus?

- a) PC
- b) MAR
- c) IR
- d) Both PC and MAR

12) ISP stands for _____

- a) Instruction Set Processor
- b) Information Standard Processing
- c) Interchange Standard Protocol
- d) Interrupt Service Procedure

13) _____ is used to choose between incrementing the PC or performing ALU operations.

- a) Conditional codes
- b) Multiplexer
- c) Control unit
- d) None of the mentioned

14) The registers, ALU and the interconnection between them are collectively called as _____

- a) process route
- b) information trail
- c) information path
- d) data path

15) The usual BUS structure used to connect the I/O devices is _____

- a) Star BUS structure
- b) Multiple BUS structure
- c) Single BUS structure
- d) Node to Node BUS structure

16) The advantage of I/O mapped devices to memory mapped is _____

- a) The former offers faster transfer of data
- b) The devices connected using I/O mapping have a bigger buffer space
- c) The devices have to deal with fewer address lines
- d) No advantage as such

17) To overcome the lag in the operating speeds of the I/O device and the processor we use _____

- a) Buffer spaces
- b) Status flags
- c) Interrupt signals
- d) Exceptions

18) The method of accessing the I/O devices by repeatedly checking the status flags is _____

- a) Program-controlled I/O
- b) Memory-mapped I/O
- c) I/O mapped
- d) None of the mentioned

19) The method which offers higher speeds of I/O transfers is _____

- a) Interrupts
- b) Memory mapping
- c) Program-controlled I/O
- d) DMA

20) The process wherein the processor constantly checks the status flags is called as _____

- a) Polling
- b) Inspection
- c) Reviewing
- d) Echoing

21) The _____ format is usually used to store data.

- a) BCD
- b) Decimal
- c) Hexadecimal
- d) Octal

22) A source program is usually in _____

- a) Assembly language
- b) Machine level language
- c) High-level language
- d) Natural language

23) Which memory device is generally made of semiconductors?

- a) RAM
- b) Hard-disk
- c) Floppy disk
- d) Cd disk

24) The small extremely fast, RAM's are called as _____

- a) Cache
- b) Heaps
- c) Accumulators
- d) Stacks

25) The ALU makes use of _____ to store the intermediate results.

- a) Accumulators
- b) Registers
- c) Heap
- d) Stack

26). _____ are numbers and encoded characters, generally used as operands.

- a) Input
- b) Data
- c) Information
- d) Stored Values

27) _____ bus structure is usually used to connect I/O devices.

- a) Single bus
- b) Multiple bus
- c) Star bus
- d) Rambus

28) The I/O interface required to connect the I/O device to the bus consists of _____

- a) Address decoder and registers
- b) Control circuits
- c) Address decoder, registers and Control circuits
- d) Only Control circuits

29) To reduce the memory access time we generally make use of _____

- a) Heaps
- b) Higher capacity RAM's
- c) SDRAM's
- d) Cache's

30) _____ is generally used to increase the apparent size of physical memory.

- a) Secondary memory
- b) Virtual memory
- c) Hard-disk
- d) Disks

31) MFC stands for _____

- a) Memory Format Caches
- b) Memory Function Complete
- c) Memory Find Command
- d) Mass Format Command

32) The time delay between two successive initiations of memory operation _____

- a) Memory access time
- b) Memory search time
- c) Memory cycle time
- d) Instruction delay

33) What is operating system?

- a) collection of programs that manages hardware resources
- b) system service provider to the application programs
- c) link to interface the hardware and application programs
- d) all of the mentioned

34) To access the services of operating system, the interface is provided by the _____

- a) System calls
- b) API
- c) Library
- d) Assembly instructions

35) Which one of the following error will be handle by the operating system?

- a) power failure
- b) lack of paper in printer
- c) connection failure in the network
- d) all of the mentioned

36) What is the main function of the command interpreter?

- a) to get and execute the next user-specified command
- b) to provide the interface between the API and application program
- c) to handle the files in operating system
- d) none of the mentioned

37) If a process fails, most operating system write the error information to a _____

- a) log file
- b) another running process
- c) new file
- d) none of the mentioned

38) Which facility dynamically adds probes to a running system, both in user processes and in the kernel?

- a) DTrace
- b) DLocate
- c) DMap
- d) DAdd

39) _____ is a unique tag, usually a number identifies the file within the file system.

- a) File identifier
- b) File name
- c) File type
- d) None of the mentioned

40) To create a file _____

- a) allocate the space in file system
- b) make an entry for new file in directory
- c) allocate the space in file system & make an entry for new file in directory
- d) none of the mentioned

41) By using the specific system call, we can _____

- a) open the file
- b) read the file
- c) write into the file
- d) all of the mentioned

42) File type can be represented by _____

- a) file name
- b) file extension
- c) file identifier
- d) none of the mentioned

43) Which file is a sequence of bytes organized into blocks understandable by the system's linker?

- a) object file
- b) source file
- c) executable file
- d) text file

44) Mapping of file is managed by _____

- a) file metadata
- b) page table
- c) virtual memory
- d) file system

45) Mapping of network file system protocol to local file system is done by _____

- a) network file system
- b) local file system
- c) volume manager
- d) remote mirror

46) Which one of the following explains the sequential file access method?

- a) random access according to the given byte number
- b) read bytes one at a time, in order
- c) read/write sequentially by record
- d) read/write randomly by record

47) When will file system fragmentation occur?

- a) unused space or single file are not contiguous
- b) used space is not contiguous
- c) unused space is non-contiguous
- d) multiple files are non-contiguous

48) Linux uses a time-sharing algorithm _____

- a) to pair pre-emptive scheduling between multiple processes
- b) for tasks where absolute priorities are more important than fairness
- c) all of the mentioned
- d) none of the mentioned

49) The first linux kernel which supports the SMP hardware?

- a) linux 0.1
- b) linux 1.0
- c) linux 1.2
- d) linux 2.0

50) Which one of the following linux file system does not support journaling feature?

- a) ext2
- b) ext3
- c) ext4
- d) none of the mentioned

51) Which binary format is supported by linux?

- a) a.out
- b) elf
- c) both a.out and ELF
- d) none of the mentioned

52) Which one of the following bootloader is not used by linux?

- a) GRUB
- b) LILO
- c) NTLDR
- d) None of the mentioned

53) The first process launched by the linux kernel is _____

- a) init process
- b) zombie process
- c) batch process
- d) boot process

54) Which desktop environment is not used in any linux distribution?

- a) gnome
- b) kde
- c) unity
- d) none of the mentioned

55) Standard set of functions through which interacts with kernel is defined by _____

- a) system libraries
- b) kernel code
- c) compilers
- d) utility programs

56) What is Linux?

- a) single user, single tasking
- b) single user, multitasking
- c) multi user, single tasking
- d) multi user, multitasking

57) Which one of the following is not a linux distribution?

- a) debian
- b) gentoo
- c) open SUSE
- d) multics

58) In windows XP, disk property which can't view with disk management is

- a) volume label
- b) whether the drive should be indexed
- c) used and available disk space
- d) disk status

59) Two ways to arrange multiple windows on the desktop are

- a) drag and drop
- b) point and click
- c) cascade and tile
- d) minimize and maximize

60) Which of the following is not an option when shutting down your computer?

- a) switch user
- b) stand by
- c) log off
- d) Restart

- 61) The acronym DOS stands for
- a) distributed operating system
 - b) driver operating system
 - c) disk operating system
 - d) diskless operating system
- 62) Window NT were released in 1993 as an operating system of
- a) 8 bit
 - b) 16 bit
 - c) 32 bit
 - d) 64 bit
- 63) The opening screen for windows and the place where you begin your work using the computer is cal.
- a) task pane
 - b) dialog box
 - c) desktop
 - d) insertion point
- 64) A collection of related data.
- a) Information
 - b) Valuable information
 - c) Database
 - d) Metadata

65) DBMS manages the interaction between _____ and database.

- a) Users
- b) Clients
- c) End Users
- d) Stake Holders

66) Which of the following is not involved in DBMS?

- a) End Users
- b) Data
- c) Application Request
- d) HTML

67) Database is generally _____.

- a) System-centered
- b) User-centered
- c) Company-centered
- d) Data-centered

68) A characteristic of an entity.

- a) Relation
- b) Attribute
- c) Parameter
- d) Constraint

69) The restrictions placed on the data.

- a) Relation
- b) Attribute
- c) Parameter
- d) Constraint

70) The restrictions placed on the data.

- a) Relation
- b) Attribute
- c) Parameter
- d) Constraint

71) IMS stands for?

- a) Information Mastering System
- b) Instruction Management System
- c) Instruction Manipulating System
- d) Information Management System

72) A model developed by Hammer and McLeod in 1981.

- a) SDM
- b) OODB
- c) DDM
- d) RDM

73) Object= _____ +relationships.

- a) data.
- b) attributes
- c) entity
- d) constraints

74) A topology that is responsible for describing the geometric arrangement of components that make up the LAN.

- a) Complex
- b) Physical
- c) Logical
- d) Incremental

75) Components used for interconnecting dissimilar networks that use different communication protocols.

- a) Switches
- b) Gateways
- c) Routers
- d) Bridges

76) A topology is a modified version of the basic star topology.

- a) network
- b) two-tiered
- c) bus
- d) ring

77) WANs that need to interconnect a very large number of sites.

- a) bus
- b) two-tiered
- c) three-tiered
- d) ring

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- a) bus
- b) two-tiered
- c) three-tiered
- d) ring

79) A topology that involves Tokens.

- a) Star
- b) Ring
- c) Bus
- d) Daisy Chaining

80) _____ operate at bottom two layers of the OSI model.

- a) Bridges
- b) Switches
- c) Models
- d) Modules

81) Connecting two or more networks to form a single network is called :

- a) Internetworking
- b) Intranetworking
- c) Interconnecting
- d) Intraconnectivity

82) OSI stands for?

- a) Open Site Interconnection
- b) Open System Interdependence
- c) Open System Interconnection
- d) Open Site Interdependence

83) A program that can retrieve files from the world wide web and render text, images or sounds encoded in the files.

- a) Browser
- b) Internet
- c) Server
- d) Web Server

84) Which of the following is not a type of browser?

- a) Netscape
- b) Web
- c) IE
- d) Mozilla

85) Both client and server release _____ connection after a page has been transferred.

- a) IP
- b) TCP
- c) Hyperlink
- d) Network

86) In HTML, the tags that tell the browser how to display the page.

- a) markup
- b) style
- c) body
- d) head

87) FTP stands for?

- a) File Text Protocol
- b) File Transfer Protocol
- c) Firm Transfer Protocol
- d) File Transplant Protocol

88) A section in HTML that contains generic information about the document.

- a) body
- b) title
- c) head
- d) style

89) A _____ partitions a web browser window so that multiple web documents can be displayed simultaneously.

- a) Frame
- b) set
- c) Frameset
- d) div

90) The _____ attribute specifies the web page to be placed in the frame initially.

- a) name
- b) src
- c) cols
- d) rows

91) This is a repository for the storage, management, and dissemination of data in which the mechanical, lighting, electrical and computer systems are designed for maximum energy efficiency and minimum environmental impact.

- a) Storage lab
- b) Data Center
- c) Data warehouse
- d) Fabric

92) This is the process of assigning storage, usually in the form of server disk drive space, in order to optimize the performance of a storage area network.

- a) Storage Provisioning
- b) Data mining
- c) Storage assignment
- d) Data Warehousing

93) Simply stated, these are large boxes that hold lots of hard disks.

- a) Host
- b) Tape library
- c) Switch
- d) Disk Array

94) This consists of the precautions taken so that the effects of a disaster will be minimized.

- a) Data retrieval
- b) Disaster recovery
- c) Archive
- d) Replication

95) This is the practice of collecting computer files that have been packaged together for backup, to transport to some other location, for saving away from the computer so that more hard disks can be made available, or for some other purpose.

- a) Backup
- b) Archive
- c) Migration
- d) Compression

96) Feature of windows 98 which enables users to integrate internet resources directly on the Windows d

- a) plug and play
- b) internet explorer
- c) START button
- d) active desktop

- 97) In windows XP professional, the typical network settings enables all except for one of the following that option
- a) the client for Microsoft networks
 - b) configuring a static IP address
 - c) TCP/IP
 - d) DHCP
- 98) Windows 95 was the first version of windows to support which standard for connecting new hardware
- a) GUI
 - b) Plug and Play
 - c) Enterprise Directory
 - d) OS
- 99) The opening screen for windows and the place where you begin your work using the computer is called
- a) task pane
 - b) dialog box
 - c) desktop
 - d) insertion point

100) When a command is not available for selection until certain other conditions are met, it is called

- a) dimmed command
- b) unavailable command
- c) dialog box
- d) cascade

101) What is the Official Language of Union of India?

- a) Hindi in Devanagari Script
- b) Hindi in Roman script
- c) Hindi in Sanskrit script
- d) Hindi in Nastaliq Script

102) On which date Part XVII of the Constitution was passed in Parliament?

- a) 26.11.1949
- b) 14.09.1949
- c) 26.01.1950
- d) 14.09.1950

103) How many chapters are there in Part XVII of the Constitution?

- a) 6 Chapters
- b) 2 Chapters
- c) 3 Chapters
- d) 4 Chapters

104) How many articles are there in the Part XVII of the Constitution?

- a) 6 Articles
- b) 8 Articles
- c) 9 Articles
- d) 7 Articles

105) What are all the nine Articles covered under Part XVII of the Constitution?

- a) Article 43 to 51
- b) Article 143 to 151
- c) Article 243 to 251
- d) Article 343 to 351

106) Which article of the constitution contain provision regarding the official language of States?

- a) Article 45
- b) Article 145
- c) Article 245
- d) Article 345

107) At present how many languages are enlisted in the Eighth Schedule of the Constitution?

- a) Twenty-one
- b) Twenty-two
- c) Twenty-three
- d) Twenty-four

108) When the Constitution was adopted, how many languages were included in the Eighth Schedule initially?

- a) Ten
- b) Fourteen
- c) Eleven
- d) Seven

109) In which year Maithili, Bodo, Dogri and Santhali were added to the Eighth Schedule later?

a) 2001

b) 2002

c) 2003

d) 2004

110) When was the official Language Act, 1963 amended?

a) 1964

b) 1965

c) 1966

d) 1967