

**HLS & SCB SBU****Question Set – 2**

Q. 1) A collection of program that controls how your computer system runs and processes information is called \_\_\_\_\_.

- (a) Operating System
- (b) Interpreter
- (c) Compiler
- (d) MS office

2) Which of the following is volatile memory?

- (a) ROM
- (b) RAM
- (c) CD
- (d) Hard Disk



3) Gigabit Ethernet has a data rate of \_ Mbps

- (a) 100
- (b) 1000
- (c) 10
- (d) 10000

4) You will not be able to take your presentation to which of the following.

- (a) DVD
- (b) PC
- (c) CD
- (d) Pen Drive

5) Which key is used to open CMOS setup utility?

- (a) Alt
- (b) Del
- (c) Enter
- (d) Tab

6) In which of the following version of computer, microprocessor was used?

- (a) first generation computer
- (b) fourth generation computer
- (c) third generation computer
- (d) second generation computer

7) Full form of GUI is :

- (a) Graphics use interaction
- (b) Graphical user interface
- (c) Graph use interface
- (d) None of the above

8) Which of the following is a sequential access memory?

- (a) DVD
- (b) RAM
- (c) ROM
- (d) Magnetic tape



Q. 9) ENIAC was the first electronic general-purpose computer. What does 'N' stand for in ENIAC?

- (a) New
- (b) Number
- (c) Next
- (d) Numerical

Q. 10) Which areas are high-speed storage areas within the CPU, but have the least storage capacity?

- (a) Storage units
- (b) Logical units
- (c) Processors
- (d) Registers



Q. 11) The actual timing signals that govern the transfer of data between input unit, processor, memory and output units are generated by the \_\_\_\_\_ and the \_\_\_\_\_ stores the processed data.

- (a) disk controller, control unit
- (b) arithmetic logic unit, memory unit
- (c) disk controller, memory unit
- (d) control unit, memory unit

12) The phrase computer graphics was introduced in 1960 by \_\_\_\_\_ a graphic designer for Boeing.

- (a) John Taylor
- (b) Michael Noil
- (c) Steven Ballmer
- (d) William Fetter

13) Full form of UPS is :

- (a) Uninterrupted Power Supply
- (b) Uninterrupted Power
- (c) Uniform Power Source
- (d) Uniform Power Supply



14) The output quality of a printer is measured by \_\_\_\_\_

- (a) Dot per inch
- (b) Dot per sq. inch
- (c) Dots printed per unit time
- (d) All of the above

Q. 15) Which of the following is a type of interrupt in a Microprocessor System?

- (a) Software Interrupt
- (b) Media Interrupt
- (c) Physical Interrupt
- (d) Device Interrupt

16) What is the fundamental idea behind how a mouse functions?

- (a) electro-magnetic
- (b) electro-operational
- (c) electro-optical
- (d) electro-mechanical



17) Which one of the following are magnetic devices?

- (a) Hard Disks
- (b) Tapes
- (c) Both 1 and 2
- (d) None of the above

18) What is necessary for booting a computer?

- (a) DBMS
- (b) Modem
- (c) Operating System
- (d) MS-Office

19) What is Symbian?

- (a) Ms-DOS operating system
- (b) Mobile operating system
- (c) Windows operating system
- (d) Linux-based mobile laptop operating system



20) How many different numbers may be represented by 4 bits?

(a) 16

(b) 8

(c) 12

(d) 4

21 ) It is required to refresh \_\_\_\_\_ after a certain time interval.

(a) State RAM

(b) Dynamic RAM

(c) Magnetic Memory

(d) Optical Memory

22)

Name the memory that acts between the main memory and the Central processing unit?

(a) Cache Memory

(b) Register Memory

(c) Virtual Memory

(d) None of these



23)

What type of device converts digital signals into a form that is intelligible to the user?

- (a) Storage devices
- (b) Keyboards
- (c) Input devices
- (d) Output devices

24) With reference to IoT, how a system is associated with the data?

- (a) Intranet
- (b) Internet
- (c) Cloud
- (d) Extranet

25 ) Daisy wheel printer is what type a printer?

- (a) Non impact
- (b) Impact
- (c) Laser
- (d) Line printer



26)

The \_\_\_\_\_ allows users to perform the basic functions of a computer. It manages all software and peripheral hardware, and accesses the central processing unit (CPU) for memory or storage purposes.

- (a) Operating System software
- (b) Application Software
- (c) Utility Programs
- (d) System Software

27)

**Assertion:** I/O Device is sometimes called the peripheral device because it surrounds the CPU and memory of the complete system.

**Reason:** Input device enters the data from outside, output device supply processing results from user to primary storage.

- (a) Both Assertion and Reason are correct and Reason is the correct explanation of Assertion.
- (b) Assertion and Reason are correct but Reason is not the correct explanation of Assertion.
- (c) The Assertion is true but the Reason is false.
- (d) The Assertion is false but the Reason is true.



28)

The mini-computer phenomenon was introduced in \_\_\_\_\_ generation of computer.

(a) I

(b) II

(c) III

(d) IV

29)

Which of the following memory improves the speed of execution of a program?

(a) Primary memory

(b) Cache memory

(c) Secondary memory

(d) Virtual memory



30) Which of the following memory types is volatile in nature?

- a) Magnetic disk
- b) RAM
- c) ROM
- d) Compact disk

31)

In the TCP/IP model, encryption and decryption are functions of \_\_\_\_\_ layer

- (a) data link
- (b) network
- (c) Transport
- (d) Application

32)

\_\_\_\_\_ is the protocol designed to handle real-time traffic on the internet.

(a) TCP

(b) UDP

(c) FTP

(d) RTP

33) Which of the following is an example of Bi-directional data communication?

(a) Simplex

(b) Half Duplex

(c) Full Duplex

(d) Both 2 and 3

34) Which of the following protocols uses both TCP and UDP?

(a) FTP

(b) SMTP

(c) Telnet

(d) DNS

35)

How many maximum links can be created in a mesh topology network of n computers?

(a)  $\frac{n(n-1)}{2}$

(b)  $n - 1$

(c)  $n(n - 1)$

(d)  $n$

36) The \_\_\_\_\_ field in IPv4 datagram is not related to fragmentation.

(a) Flag

(b) Offset

(c) TOS

(d) Identifier

(37) A medium for transferring data between two locations is called

- (a) Network
- (b) Communication channel
- (c) Modem
- (d) Bus

38)

Suppose you are browsing the world wide web using a web browser and trying to access the web servers. What is the underlying protocol and port number that are being used ?

- (a) UDP, 80
- (b) TCP, 80
- (c) TCP, 25
- (d) UDP, 25

39) Time to Live (TTL) field in the IP datagram is used \_\_\_\_\_.

- (a) to optimize throughput
- (b) to prevent packet looping
- (c) to reduce delays
- (d) to prioritize packets

40) Which of the following is not a valid multicast MAC address ?

- a) 01:00:5E:00:00:00
- b) 01:00:5E:00:00:FF
- c) 01:00:5E:00:FF:FF
- d) 01:00:5E:FF:FF:FF

41) In TCP, a unique sequence number is assigned to each

- a) byte
- b) word
- c) segment
- d) message

42) Which layers of the OSI model are host-to-host layers?

- a) Transport, Session, Presentation, Application.
- b) Network, Transport, Session, Presentation.
- c) Datalink, Network, Transport, Session.
- d) Physical, Datalink, Network, Transport.

43) What is routing algorithm used by OSPF routing protocol?

- a) Distance vector
- b) Flooding
- c) Path vector
- d) Link state

44) Which of the following is NOT the layer of TCP/IP protocol?

- a) Transport layer
- b) Internet layer
- c) Application layer
- d) Presentation layer

45) \_\_\_\_\_ uses pretty good privacy algorithm.

- a) Electronic mails
- b) File encryption
- c) Both Electronic mails and File encryption
- d) None of the options

46) A digital signature is required:

- a) for non-repudiation of communication by a sender
- b) for all e-mail sending
- c) for all DHCP server
- d) for FTP transactions

47) TCP port Number for http services is

- a) 21
- b) 22
- c) 80
- d) 88

48) The class-C IPv4 address must start with \_\_\_\_\_.

a) 101

b) 10

c) 011

d) 110

49)

Which network protocol Allows hosts to dynamically get a unique IP number on each bootup?

(a) DHCP

(b) BOOTP

(c) RARP

(d) ARP

50) What is the range of data field in Ethernet Frame format?

- a) 46 Bytes to 1500 Bytes
- b) 46 bits to 1500 bits
- c) 64 bytes to 518 bytes
- d) 72 bytes to 522 bytes

51) Which is NOT an operating system?

- (a) LINUX
- (b) C++
- (c) UNIX
- (d) MS-DOS

52)

\_\_\_\_\_ is an operating system (OS) intended to serve real-time applications that process data as it comes in, without delay.

- (a) DOS
- (b) Lynx
- (c) Windows XP
- (d) Real-time operating system

53) Ubuntu is which type of operating system?

- (a) Open source
- (b) Windows-based
- (c) Mac-based
- (d) Open access

54)

Where does the operating system write the error information when process is fail?

- (a) New file
- (b) Exudative file
- (c) Second running process
- (d) Log file

55)

Which of the following conditions need to be held simultaneously for deadlock occurrences

- (a) Mutual Exclusion, Hold and Wait, No Preemption, and Circular Wait
- (b) Hold and Wait, No Preemption, and Circular Wait
- (c) Mutual Exclusion, No Preemption, and Circular Wait
- (d) Mutual Exclusion, Hold and Wait, and No Preemption

56)

A process refers to 5 pages, A, B, C, D, E in the order :

A, B, C, D, A, B, E, A, B, C, D, E

If the page replacement algorithm is FIFO, the number of page transfers with an empty internal store of 3 frames is :

- (a) 8
- (b) 10
- (c) 9
- (d) 7

57) A \_\_\_\_\_ is a program in execution.

- (a) Process
- (b) Stack
- (c) Program counter
- (d) Heap

58) The solution to critical section problem must ensure following conditions:

- (a) Only Mutual Exclusion and Progress
- (b) Only Mutual Exclusion and Bounded Waiting
- (c) Mutual Exclusion, Progress, and Bounded Waiting
- (d) Only Progress and Bounded Waiting

59)

\_\_\_\_\_ is generated when it is known at compile time that where the process resides in memory.

- (a) Virtual code
- (b) Locatable code
- (c) Absolute code
- (d) Relocatable code

60) Which of the following is not a valid process state?

- (a) Ready
- (b) Hold
- (c) New
- (d) Running

**61)** Which of the following options defines Operating System?

- (a) It is a set of programs used to convert high level language to low level language.
- (b) It is a set of programs that controls the way a computer works and runs other programs.
- (c) It is a software that is used to convert source program instructions to set programs.
- (d) It is the actual way of working on computers.

**62)**

Consider the following statements regarding interrupts.

- (I) If a process is interrupted during system call handling then the OS will crash.
- (II) If a process is interrupted during system call handling then the process is moved to the READY queue.
- (III) If an interrupt handler is interrupted, the OS will crash.

Which of the above statements are true?

- (a) None of the above
- (b) I and II
- (c) III only
- (d) II and III

63) The jobs have fixed deadline in the case of:

- a) Time Sharing Operating System
- b) Real Time Operating System
- c) Multiprogramming Operating System
- d) Multiprocessing Operating System

64)

Which one of the following is true for Auxiliary Storage?

- a) It has an operating speed far slower than that of the primary storage
- b) It has an operating speed faster than that of the primary storage
- c) It has an operating speed equivalent than that of the primary storage
- d) It has zero operating speed

65) The portion of windows XP kernel that handles scheduling is known as \_\_\_\_\_.

- a) pre-emptive scheduler
- b) dispatcher
- c) simulator
- d) defragmentor

66) What is Hit Ratio?

- a) A quantity to measure performance of cache memory
- b) A quantity to measure performance of hard disk
- c) A quantity to measure performance of a printer
- d) A quantity to measure performance of Static RAM

67)

\_\_\_\_\_ contains and manages all the programs and applications that a computer or other device is able to run.

- (a) Operating system
- (b) Computer hardware
- (c) Computer software
- (d) Data Science

68)

The booting process does the following with the OS.

- a) Portions of the operating system are copied from disk into memory
- b) Portions of the operating system are copied from memory onto disk
- c) Portions of the operating system are compiled
- d) Portions of the operating system are emulated

69)

Which of the following memory allocation scheme suffers from External fragmentation?

- (a) Segmentation
- (b) Pure demand paging
- (c) Swapping
- (d) Paging

70)

The average time required to reach a storage location in memory and obtain its contents is called the \_\_\_\_\_.

(a) seek time

(b) turnaround time

(c) access time

(d) transfer time

71)

Which is a client program that acts as an interface between user and World Wide Web.

(a) Web browser

(b) HTML

(c) URL

(d) OS

72)

Which of the following statements is NOT correct about HTTP cookies?

- (a) Cookies can be used to track the browsing pattern of a user at a particular site
- (b) A cookie is a piece of code that has the potential to compromise the security of an Internet user
- (c) A cookie gains entry to the user's work area through an HTTP header
- (d) A cookie has an expiry date and time

73)

A \_\_\_\_\_ is the term used when a search engine return a Web page that matches the search.

Criteria.

- (a) Blog
- (b) Hit
- (c) Link
- (d) View

**74)** Which of the following is **not** an attribute of the <HR> element?

- (a) SIZE
- (b) ALIGN
- (c) COLOUR
- (d) NOSHADE

**75)**

While browsing e-commerce websites \_\_\_\_\_ activates the padlock and the https protocol and allows secure connections from a web server to a browser.

- (a) http
- (b) SSL certificate
- (c) Firewall
- (d) Honeypot

76)

The \_\_\_\_\_ software allows online shopping customers to accumulate a list of items for purchase.

- (a) shopping cart
- (b) web browser
- (c) payment gateway
- (d) web server

77) Which segment does eBay, Amazon.com, Flipkart, Snapdeal belong?

- (a) B2Bs
- (b) B2Cs
- (c) C2Bs
- (d) C2Cs

78) World Wide Web (WWW) was invented by

- a) Bill Gates
- b) Steve Jobs
- c) Tim Berners-Lee
- d) Alan Turing

79) The internet allows to \_\_\_\_.

- (a)  
Send electronic mail
- (b)  
View web pages
- (c)  
Connect to servers all around the world
- (d)  
All of the above

80) Which of the following principles does most packet switches use?

- (a) Stop and wait
- (b) Store and forward
- (c) Both Stop and wait & Store and forward
- (d) None of these

81) Which of the following is **false**?

- (a) In TCP/IP model, internet layer is closest to the user.
- (b) TCP avoids network saturation.
- (c) TCP enable dataflow for monitoring.
- (d) TCP makes communication between server and client.

82)

Which of the following statements cannot be associated with OSI model?

- (a) A structured way to discuss and easier update system components.
- (b) One layer may duplicate lower layer functionality.
- (c) Functionality at one layer no way requires information from another layer.
- (d) None of these

83) In which layer, the bridge operates in OSI model?

- (a) Physical
- (b) Manual
- (c) Application
- (d) Data link

84) The application protocol that makes the web work is:

- (a) HTML
- (b) SMTP
- (c) HTTP
- (d) IP

85) Which of the following is not a part of data link layer ?

- (a) Repeater
- (b) NIC
- (c) Ethernet and Token Ring switches
- (d) Bridges

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