B. K. BIRLA CENTRE FOR EDUCATION, PUNE

(SENIOR SECONDARY CO-ED DAY CUM RESIDENTIAL SCHOOL, AFFILIATED TO CBSE NEW DELHI)

MID TERM EXAM (2024-25)

INFORMATION TEXHNOLOGY-802 (S-5)

Class : XI	**Duration : 3 Hours**
Date : 23-09-2024	**Max. Marks : 60**

General Instructions:
1. *Please read the instructions carefully.*
2. *This Question Paper consists of 56 questions in six sections: Sections A,B,C,D,E & F*
3. *Section A & B have Objective type questions (MCQ, Fill in the blanks) whereas Section C&D Short Questions, Section E contains long questions and Section F contains HOTS Questions.*
4. *All questions of a particular section must be attempted in the correct order as per instructions.*
5. ***SECTION A&B - OBJECTIVE TYPE QUESTIONS (30 MARKS):***
   i. *This section has 02 types of question. MCQ & Fill in the blanks.*
   ii. *Marks allotted are mentioned against each question/part.*
   iii. *There is no negative marking.*
   iv. *Do as per the instructions given.*
6. ***SECTION C,D,E&F – SUBJECTIVE TYPE QUESTIONS (30 MARKS):***
   i. *This section has 18 questions.*
   ii. *A candidate has to do 3 questions from Section C , 3 questions from section D,2 questions from section E & 3 questions from section F.*
   iii. *Do as per the instructions given.*

Section-A

A. Multiple Choice Questions.(Answer any 4 from Q.No 1-6)   4 x 1 = 4 Marks

1. A good friend of yours is very upset as her best friend has had a terrible accident. You are tired from the day's work. The phone rings and the caller ID shows that is her. What should you do?
   a. Ignore the call because you are tired.
   b. Answer the call and talk to her.
   c. Tell her that you are too tired.
   d. Tell her that you will talk again tomorrow

2. Which of these is not an appropriate nonverbal communication at work?
   a. Shaking hands firmly
   b. Looking at a speaker with a smile
   c. Putting arms around a coworker's shoulder
   d. Standing with an upright posture

3. Choose the correct example of oral communication.
   a. Newspaper
   b. Notes
   c. Reports
   d. Face to face interaction

4. The ability to impress the mind, arousing admiration, awe, respect for the way someone looks or carries oneself.
   a. Grooming
   b. Team norms
   c. Impressive appearance
   d. None of these

5. To knowing one's potential by examining and analyzing intellectual and spiritual capacities.
   a. Self-management
   b. Grooming
   c. Self-exploration
   d. Intelligence
6. The ability to navigate and shift in a healthy way one's thoughts, emotions and behaviors in order to make decisions and each goals that benefits oneself and others.
   a. Self-management
   b. Impressive appearance
   c. Intelligence
   d. Self-exploration

Section-B

B. Multiple Choice Questions and Fill in the blanks.(Answer any 26 from Q.No 7 - 38)

26 x 1 = 26 Marks

7. What type of memory is volatile and loss its data when the computer is turned off?
   a. ROM
   b. Cache memory
   c. SSD
   d. RAM
8. In the binary number system, what does the digit "1" represent?
   a. False
   b. high Voltage
   c. True
   d. Low voltage
9. HDD stands for……………….
10. Cache memory is placed between the CPU and the ……………….memory.
11. How are processors classified?
    a. Based on their size and weight
    b. Based on color and design
    c. Based on clock speed
    d. Based on their price and availability cores, and manufacturing technology.
12. What is the functions of Hard Disk in a computer system?
    a. Manage input output device
    b. Stores programs, files or data and internal resources.
    c. To house the main processor
    d. Provide connection to other computer
13. Pen drive is also known as…………….
14. The ………………houses the main processor or CPU of the computer.
15. What is the role of a driver in computing?
    a. It insures that data is transmitted accurately and efficiently
    b. It allows the OS to communicate with a specific hardware device
    c. It identifies unique characteristics of devices
    d. It provides common platforms for programs
16. What is the main function of OS?
    a. To develop computer software
    b. To manage computer security
    c. To allocate and manage computer resources
    d. To design computer hardware

17. How is memory allocated to process?
    a. Static allocation
    b. Dynamic allocation
    c. Fixed allocation
    d. None of these
18. To run a program or process on a computer, it needs to be loaded into …………..
19. If mouse does not work even if it is properly connected to the computer you should once try to connect it to
    a. Another computer and see if it works
    b. The USB connector
    c. The main power
    d. None of these
20. What is the name given to a systematic approach used to solve a problem?
    a. Debugging
    b. Inventing
    c. Solving
    d. Troubleshooting
21. …………..connection can be a reason for the mouse not working.
22. If the speakers are working at the low volume, the first thing you should check is the ………of your computer.
23. Disk …………..is a condition that occurs when a computer's file system stores files in a non-contiguous or scattered clusters on the hard disk.
    a. Segmentation
    b. Plagiarism
    c. Fragmentation
    d. Backup
24. If you face networking problems, you must press on Control panel->………….
    a. Sharing center
    b. Network
    c. Network and sharing center
    d. None of these
25. It is necessary to …………….unwanted files regularly so that your disk has free space.
    a. Create
    b. Manage
    c. Delete
    d. Backup
26. The Internet will not work if the………….point in the computer is faulty.
27. Who introduced the concept the communication?
    a. Donald Davies
    b. Alexander Graham Bell
    c. Len Kleinrock
    d. National Science Foundation
28. What is the latest version of the Internet protocol?
    a. IPv4
    b. IPv5
    c. IPv6
    d. IPv7
29. What does DNS stand for in the context on the Internet?
    a. Digital Networking System
    b. Domain Name Service
    c. Data Node System
    d. Device Network Service

30. Which network device is used to regenerate and boost week signal?
    a. Router
    b. Repeater
    c. Hub
    d. Gateway
31. What does TELNET stand for?
    a. Terminal Login
    b. Terminal Network
    c. Transmission Control Protocol
    d. Transfer Network Protocol
32. Which Network Service is used for file transfers between a client and a server?
    a. Email
    b. Telnet
    c. World wide web
    d. File Transfer Protocol(FTP)
33. What is the purpose of SMTP in email communication?
    a. Authenticating users
    b. Transferring files
    c. Sending and receiving messages
    d. Accessing web pages.
34. POP3 is the acronym for ……………
35. The short form of "malicious software" is :
    a. Malware
    b. Malicware
    c. Maliware
    d. Muscleware
36. ……………software plays an important role in prevention of virus.
37. The 'L' in SSL stands for:
    a. Leak
    b. Level
    c. Layer
    d. Line
38. Which of the following is NOT one of the reasons why phishing attacks are carried out?
    a. Identity theft
    b. Financial fraud
    c. Unauthorized access to accounts
    d. None of these.

Section-C

C. Short Answer Questions(Answer any 3 from Q.No 39 – 43)   **3 x 2=6 Marks**

39. Explain the communication cycle briefly.

40. Explain the factors affecting perspective in communication.

41. Describe assertive form of communication with two examples.

42. Define Time Management. Explain a few time management strategies.

43. Give any six points that are the part of personal grooming checklist.

Section-D

D. Short Answer Questions(Answer any 3 from Q.No 44 – 48)   **3 x 2=6 Marks**

44. Why is RAM considered volatile memory? How does it differ from non-volatile memory?

45. What is the role of the CPU in a computer system?

46. What are the procedures to follow if the monitor is going black?

47. What are the two categories of transmission media used in computer networks? Explain with example.

48. Give any three protective measures that you can take while accessing Internet.

Section-E

E. Long Answer Questions(Answer any 2 from Q.No 49 – 51)   **2 x 3=6 Marks**

49. Write the roles of an Operating System? Name and explain.

50. What is disk defragmentation?

51. Explain the role of DNS in Internet Communication.

Section-F

F. Higher Order Thinking Skills Questions.(Answer any 3 from Q.No 52 -56)   3 x 4=12 Marks

52. How does cache memory improve the performance of a computer system? Discuss its placement, function and impact on CPU operations.

53. What general procedure must you follow if any peripheral device in NOT working?

54. How does a router enable communication between devices on different networks? What is the advantage of using a router in a network?

55. How does digital literacy help in identifying and addressing cyberbullying?

56. Give any four protective measures that we can take while accessing Internet.

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