पत्र : द्वितिय पत्र   **KEY [B]**

समय : २ घण्टा ३० मिनेट   पूर्णाङ्क : १००

विषय : **Information Technology – II**

उत्तरपुस्तिकामा प्रश्नपत्रको **KEY** अनिवार्य रूपले उल्लेख गर्नुपर्नेछ । उल्लेख नगरेमा उत्तरपुस्तिका रद्द हुनेछ । परीक्षामा **calculator, mobile** प्रयोग गर्न पाइनेछैन ।

Objective

Time: 30 mins
25*1=25 Marks

Multiple Choice

1. **What is the primary purpose of implementing a backup and disaster recovery plan?**
   A) To prevent all possible disasters from occurring
   B) To minimize the impact of data loss and downtime in the event of a disaster
   C) To ensure that no data loss occurs ever
   D) To completely eliminate the need for data backup

2. **IDE interface can be used to connect ....**
   A) only hard drive   B) only optical drive
   C) both hard drive and optical drive   D) none of the above

3. **What is the primary difference between a vacuum tubes and a semiconductor?**
   A) Vacuum tubes are smaller in size
   B) Semiconductors use electrons, while vacuum tubes use ions
   C) Vacuum tubes are more efficient at high temperatures
   D) Semiconductors consume less power

4. **Which of the following transistor circuits is most commonly used?**
   A) Common Emitter   B) Common Base
   C) Common Collector   D) Emitter Collector

5. **In a PNP transistor, base will be of .... material.**
   A) P   B) N   C) Neither P nor N   D) Either P or N

6. **How do MOSFETs differ from JEETs?**
   A) MOSFETs have higher input impedance
   B) JFETs operate at higher temperature
   C) MOSFETs are less susceptible to gate capacitance
   D) JFETs have a larger channel width

7. **Which of the following terms refers to the method of mapping the consecutive memory blocks to consecutive cache blocks?**
   A) Direct Mapping   B) Parallel Mapping
   C) Associative Mapping   D) Indirect Mapping

8. **Which ratio is used to measure the performance of cache memory?**
   A) Chat Ratio   B) Hit Ratio
   C) Copy Ratio   D) Data Ratio

9. **What is the name given to the method of accessing the I/O devices by repeatedly? Checking the status flags?**
   A) Interrupt based I/O   B) Memory Mapped I/O
   C) Program-Controlled I/O   D) Hardwired I/O

10. **What is the primary function of operating system?**
    A) Providing security to the system
    B) Storing files and directories
    C) Running application software
    D) Managing hardware resources

11. **What method offers higher speed of I/O transfer?**
    A) DMA   B) Memory mapped I/O
    C) Program-controlled I/O   D) Interrupt-initiated I/O

12. **A .... is a named location on a disk where files are stored.**
    A) Folder   B) Volume   C) Label   D) Root

13. **Which of the following is not a common security measure in operating system?**
    A) Antivirus Software   B) Firewall
    C) Network Router   D) Intrusion Detection System

14. **Which network topology is best suited for large business, which must carefully control and coordinate the operation of distributed branch outlets?**
    A) Ring   B) Local area   C) Hierarchical   D) Star

15. **Which of the following accurately describes the concept of subnetting in computer networking?**
    A) Subnetting refers to the process of connecting multiple network together to form a larger network
    B) Subnetting is a technique used to translate domain names into IP addresses
    C) Subnetting involves encrypting data packets to secure them during transmission
    D) Subnetting involves dividing a larger network into smaller sub networks

16. **Which of the following is a program that can retrieve files from the World Wide Web and render texts, images or sounds encoded in the files?**
    A) Explorer   B) Browser   C) Web Server   D) Web Application

17. **What is the primary function of a firewall in network security?**
    A) Encrypting data transmission
    B) Filtering network traffic based on predetermined security rules
    C) Managing IP addresses
    D) Controlling access to network resources

18. **What technology is commonly used for teleconferencing?**
    A) VoIP   B) Bluetooth   C) NFC   D) RFID

19. **What happens to a file if it is compressed?**
    A) Quality enhances
    B) Requires less space for storage
    C) Requires more time to deliver to client
    D) Requires decryption to open

20. **Which signal is used for execution and sequencing of instructions?**
    A) Logical signal   B) Input signal
    C) Control signal   D) Output signal

21. **What does the term 'peripheral device' refer to in the context of computer system?**
    A) The main processing unit of a computer
    B) External devices connected to a computer to provide input and output capabilities
    C) The operating system of a computer
    D) A network of interconnected computer

22. **Which of the following software programs or hardware devices filters all data packets coming through the internet or a network?**
    A) Antivirus   B) Firewall   C) Cookies   D) Malware

23. What is the purpose of a modem in a computer system?
   A) Provides digital security   B) Performs arithmetic operation
   C) Stores data temporarily   D) Converts digital signals to analog signals

24. What is the purpose of BISO settings in a computer system?
   A) Managing storage device
   B) Configuring system peripheral
   C) Providing instructions for hardware initialization
   D) Managing network connection

25. How many pins are available in parallel port?
   A) 9   B) 15   C) 20   D) 25

1. (B)	**2. (C)**	**3. (D)**	**4. (B)**	**5. (B)**
6. (A)	**7. (A)**	**8. (B)**	**9. (C)**	**10. (D)**
11. (A)	**12. (A)**	**13. (C)**	**14. (C)**	**15. (D)**
16. (B)	**17. (B)**	**18. (A)**	**19. (B)**	**20. (C)**
21. (B)	**22. (B)**	**23. (D)**	**24. (C)**	**25. (D)**