

Punjab Baord Class 12 Computer Applications Question Paper (Memory Based)

Time Allowed :3 Hour	Maximum Marks :60	Total Questions :24
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General Instructions

Read the following instructions very carefully and strictly follow them:

- Answers to this Paper must be written on the paper provided separately.
- You will not be allowed to write during the first 15 minutes
- This time is to be spent in reading the question paper.
- The time given at the head of this Paper is the time allowed for writing the answers,
- The paper has four Sections.
- Section A is compulsory - All questions in Section A must be answered.
- You must attempt one question from each of the Sections B, C and D and one other question from any Section of your choice.

1. Explain the different types of network topologies (Bus, Star, Ring, Mesh).

2. Differentiate between guided (Twisted pair, Fiber-optic) and unguided (Radio, Microwave, Infrared) transmission media.

3. Define the role of network devices like Modems, Routers, Gateways, and Switches.

4. Explain the functions of common network protocols: HTTP, FTP, SMTP, and TCP/IP.

5. Define DBMS and list its advantages over a traditional file system.

6. Explain the concepts of Primary Key, Foreign Key, and Candidate Key.

7. Write the syntax and use of SQL DDL commands (CREATE, ALTER, DROP) and DML commands (INSERT, UPDATE, DELETE).

8. Describe the use of built-in MySQL functions like COUNT(), SUM(), and MAX().

9. Differentiate between Mutable and Immutable objects in Python.

10. Define Cybercrime and explain types like Hacking, Phishing, and Ransomware.

11. Explain the CIA Triad (Confidentiality, Integrity, and Availability) in cyber safety.

12. What are the main provisions of the Indian IT Act 2000?

13. Explain the importance of E-waste management and proper disposal of electronic gadgets.
