



B Tech III Year I-Semester Supplementary Examinations, November-2024
Course: Computer Systems-II
(Common to AI & AIML)

Time: 3Hours

Max Marks: 60

Section –A (Short answer type questions)

- **Answer all questions:** **(10 x 2 =20Marks)**

1. Define operating system and write three basic types of services operating system provides.
2. What is command line interface?
3. Write different forms of files.
4. Write the difficulties with contiguous storage allocation.
5. What is MINOS memory map?
6. Define paging and write about three page replacement algorithm.
7. Draw Basic Client–Server Architecture.
8. What is A Five-Node Full Mesh Network?
9. What is Standard Ethernet Frame.
10. Draw Logical Connection View of TCP.

Section—B (Essay answer type questions)

- **Answer all questions:** **(5x8=40 Marks)**

11. A) Explain Modern Integrated Computer Environment with the help of neat diagram.

OR

B) Write Different types of user interfaces.

12. A) Describe the role of the file management system in detail.

OR

B) Explain directory structure in detail with the help of neat diagram.

13. A) Write about A Typical Process Control Block in detail.

OR

B) Discuss Non-preemptive Dispatch Algorithms.

14. A) Generalize the Model of a Communication Channel.

OR

B) Discuss Metropolitan Area Network in detail.

15. A) Generalize Operation of the Data Link and Physical Layers between Nodes in a Network.

OR

B) Explain Domain Name System Server Hierarchy in detail.