

SECTION - A

Answer any THREE questions

(3×15 = 45)

- 1) Explain in detail.
 - a) Design issues in distributed system.
 - b) Role of DNA to increase system concurrency in Hardware design.
- 2) Explain about layered protocols in distributed system. Also explain commit & non-blocking protocols.
- 3) Explain in detail.
 - a) Scheduling criteria
 - b) Scheduling algorithms with example.
- 4) Discuss about
 - a) Issues in building distributed file system.
 - b) Distributed system topology.
- 5) Explain about the limitations of distributed system & trends in distributed file system.

SECTION – B

Answer any FIVE questions

(5×5 = 25)

- 6) Differentiate Hardware & software concepts.
- 7) Give the types of network.
- 8) Discuss the solution to distributed mutual exclusion.

- 9) Discuss in detail fault tolerance.
- 10) Explain Banker's algorithm to avoid dead lock.
- 11) What is thread? Give the different types of thread in detail.
- 12) Discuss about recovery in concurrent system.
- 13) Explain about multiprogramming & multiprocessing.

SECTION-C

Answer ALL the questions

(1×5 = 5)

- 14) Define memory.
- 15) What is RPC?
- 16) Give the states of process.
- 17) What is processor?
- 18) Define file.

