Question Paper Code : 90218

M.C.A. DEGREE EXAMINATIONS, APRIL/MAY 2022.

Elective

MC 4004 — ADVANCES IN OPERATING SYSTEMS

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is synchronization mechanism OS?

2. What are two methods of synchronization?

3. Where is distributed OS used?

4. What are the applications of distributed system?

5. What is process management in distributed system?

6. What is load balancing in distributed system?

7. What is RTOS and its types?

8. Define processes and threads.

9. What is scheduling?

10. Define input output management.

PART B — (5 × 13 = 65 marks)

11. (a) What are the 3 types of scheduling and explain in detail.

Or

(b) Define deadlock and explain about deadlock recovery with few points.

12. (a) What is distributed system in operating system?

Or

(b) What are types of distributed operating and explain in detail.

13. (a) What are the three main characteristics of a distributed system and explain briefly.

Or

(b) What are the limitation of distributed system?

14. (a) What are the characteristics of RTOS and explain.

Or

(b) Define real time task scheduling in detail.

15. (a) Explain briefly about inter-process communication.

Or

(b) Explain Kernel modules in detail

PART C — (1 × 15 = 15 marks)

16. (a) Define Deadlock and explain in detail about Detection and prevention of deadlock.

Or

(b) Explain in detail about Client-server resource access.

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