BCA52 — OPERATING SYSTEM

Time : Three hours   Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. List out the four component of Computer System.

2. What is Context Switch?

3. Define Priority Scheduling.

4. What is Safe State?

5. Define Logical Address Space.

6. What is Fragmentation?

7. Define Paging.

8. List out the four primary data operation in HBase.

9. What is an indexed allocation?

10. Define C-SCAN Scheduling.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Write short note on Operating System architecture.

Or

(b) Explain in detail about Schedulers and its types.

12. (a) Explain the Multilevel Queue scheduling with neat diagram.

Or

(b) Describe the Deadlock Prevention and its conditions.

13. (a) Discuss on Address Binding.

Or

(b) Write short note on Protection.

14. (a) Explain the Swapping and its processes.

Or

(b) Write short note on basic method of Segmentation.

15. (a) Describe the Linked allocation with neat diagram.

Or

(b) Discuss on SCAN Scheduling with suitable example.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Summarize the Classification of Operating system.

17. Explain in detail about the scheduling algorithm with example.

18. Describe the Demand Paging concept.

19. Explain the Structure of the Page table with suitable example.

20. Give an overview on the directory structure.