Reg. No. : ....

Name : ....

IV Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/ Improvement) Examination, April 2024
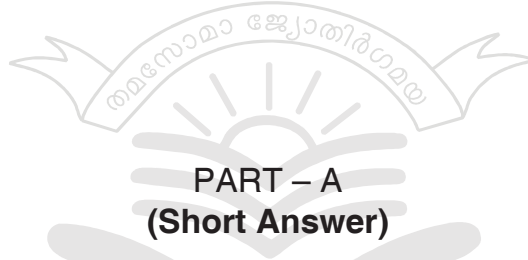**(2019 to 2022 Admissions)**
GENERAL AWARENESS COURSE IN COMPUTER SCIENCE
4A14CSC : Operating Systems

Time : 3 Hours   Max. Marks : 40

PART – A
(Short Answer)

Answer **all** questions.   **(6×1=6)**

1. Define OS.

2. What is meant by page fault ?

3. Define throughput.

4. What is PCB ?

5. What is meant by a safe state ?

6. Define Seek time.

PART – B
(Short Essay)

Answer **any 6** questions.   **(6×2=12)**

7. Differentiate between process and program.

8. Write note on context switch.

9. What is ready state of a process ?

10. What is preemptive scheduling ?

11. Discuss the purpose of CPU scheduling in an operating system.

12. Discuss the concept of internal fragmentation.

13. Define disk scheduling.

14. What is swapping ?

PART – C
(Essay)

Answer **any 4** questions. (4×3=12)

15. Explain the Round Robin scheduling.

16. Write a note on process states.

17. Explain LRU page replacement.

18. Explain the structure of operating system.

19. Explain resource allocation graph.

20. What are the advantages and disadvantages of segmentation ?

PART – D
(Long Essay)

Answer **any 2** questions. (2×5=10)

21. Explain any two disk scheduling algorithms in detail.

22. Explain deadlock avoidance.

23. Explain paging.

24. Explain contiguous memory allocation.

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