



K23U 1112

Reg. No. :

Name :

**IV Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, April 2023
(2019 Admission Onwards)**

**GENERAL AWARENESS COURSE IN COMPUTER SCIENCE
4A14CSC : Operating Systems**

Time : 3 Hours

Max. Marks : 40



PART - A

Short Answer. Answer **all** questions.

1. Define the term process.
2. What is non pre-emptive scheduling algorithm ?
3. How can be solved the internal fragmentation ?
4. Expand PCB.
5. Explain the use of program counter.
6. Expand TLB.

(6×1=6)



PART - B

Short Essay. Answer **any 6** questions.

7. Define the term operating system.
8. What is ready state of a process ?
9. What is meant by multi-programming ?
10. What is inter-process communication ?
11. What is meant by segmentation ?

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12. Discuss the concept of virtual memory.

13. What are the contents of PCB ?

14. What is meant by disk scheduling ?

(6×2=12)

PART – C

Essay. Answer **any 4** questions.

15. Explain the structure of operating system.

16. What is internal fragmentation ?

17. What is meant by page replacement ?

18. Differentiate long term and short term schedulers.

19. Explain the SJF scheduling algorithm.

20. What is context switching ?

(4×3=12)

PART – D

Long Essay. Answer **any 2** questions.

21. Explain the functions of an operating system.

22. Explain paging hardware with a neat diagram.

23. Explain FCFS scheduling and priority scheduling algorithm.

24. Explain deadlock prevention in detail.

(2×5=10)
