



K22U 1547

Reg. No. :

Name :

IV Semester B.Sc. Degree CBCSS (OBE) Regular/Supplementary/
Improvement Examination, April 2022
(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 virtual memory.
2. Expand SSTF.
3. What is mutual exclusion in deadlock ?
4. Expand PCB.
5. Define microkernel.
6. What is a multiuser operating system ?

(6×1=6)

PART – B
(Short Essay)

Answer **any six** questions.

7. Explain multiprocessing.
8. When can a process resume operation ?
9. What is the purpose of a scheduling queue ?
10. What is a Kernel ? Explain its major aim ?
11. What is RAG ? What is its use ?
12. What is circular wait in context of a deadlock ?
13. What is contiguous allocation ?
14. Define segmentation.

(6×2=12)

P.T.O.



PART – C
(Essay)

Answer **any four** questions.

15. Explain any three functions of an operating system.
16. Explain the characteristics of a deadlock.
17. Explain safe and unsafe state of a system.
18. Explain context switching.
19. What is a long term scheduler ? What is its function ?
20. Explain FCFS and SRTProcess Scheduling Algorithm.

(4×3=12)

PART – D
(Long Essay)

Answer **any two** questions.

21. Explain the types of Operating system.
22. Explain the different operations on processes.
23. Explain the methods of preventing deadlock.
24. Explain the different page replacement algorithms.

(2×5=10)
