



Reg. No. :

Name :



K21U 1111

IV Semester B.Sc. Degree CBCSS (OBE) Regular Examination, April 2021
(2019 Admission Only)

GENERAL AWARENESS COURSE IN COMPUTER SCIENCE
4A14CSC : Operating Systems

Time : 3 Hours

Max. Marks : 40

PART – A

Short answer. Answer **all** questions.

1. Define main memory.
2. What is the principle of optimal page replacement algorithm ?
3. Expand RAG.
4. Define context switching.
5. What is meant by kernel of operating system ?
6. Define booting. (6×1=6)

PART – B

Short Essay. Answer **any six** questions.

7. Explain multiprogramming.
8. When will be a process suspended ?
9. Give any two scheduling criteria.
10. What is a system call ?

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11. Define deadlock with an example.
12. Write any two necessary conditions for a deadlock.
13. What is meant by swapping ?
14. Define paging. (6x2=12)

PART – C

Essay – Answer **any four** questions.

15. Explain Timesharing Operating system.
16. How is recovery from deadlock possible ?
17. Explain safety algorithm.
18. Explain the states of a process with a diagram.
19. What is a short term scheduler ? What is its function ?
20. Explain SCAN/C-SCAN Algorithm. (4x3=12)

PART – D

Long essay – Answer **any two** questions.

21. Explain the functions of operating system.
22. What is a PCB ? Explain.
23. Explain the methods of preventing deadlock.
24. Write notes on Virtual memory. (2x5=10)