K21U 1111

Reg. No. : ....

Name : ....

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. **(6×2=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. **(4×3=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. **(2×5=10)**

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