



K21U 4671

Reg. No. :

Name :

**V Semester B.C.A. Degree CBCSS (OBE) Regular Examination, November 2021
(2019 Admn. Only)**

**Core Course
5B12BCA : OPERATING SYSTEMS**

Time : 3 Hours

Max. Marks : 40

PART – A

(Short Answer)

Answer **all** questions.

(6×1=6)

1. Define operating system.
2. Expand PCB.
3. What is the technique used to support copy semantics for application I/O ? buffering.
4. List any two file attributes.
5. _____ is a mechanism that provides the inference between a process and the operating system.
6. Define external fragmentation.

PART – B

(Short Essay)

Answer **any 6** questions.

(6×2=12)

7. Write short note on command interpreter.
8. Explain process states with neat diagram.
9. Write short note on contiguous memory algorithm.
10. Explain the Look Disk Scheduling algorithm.

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11. Explain about virtual memory.
12. Define maskable and non maskable interrupt.
13. Write short note on DMA.
14. Define spool. Explain spooling.

PART – C

(Essay)

Answer **any 4** questions.

(4×3=12)

15. Explain the fundamental approaches for users to interface with operating system.
16. Explain FCFS and SJF scheduling with example.
17. Write note on segmentation.
18. Explain about file operations.
19. Write note on Inter Process Communication (IPC).
20. Explain the steps in DMA transfer with diagram.

PART – D

(Long Essay)

Answer **any 2** questions.

(2×5=10)

21. Explain in detail about the functions of operating system.
22. Define Deadlock. Explain Bankers Algorithm for deadlock avoidance.
23. Explain any three page replacement methods with example.
24. Explain in detail about file allocation methods.