



K22U 2250

Reg. No. :

Name :

**V Semester B.C.A. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, November 2022
(2019 Admission Onwards)**

**Core Course
5B12BCA – OPERATING SYSTEMS**

Time : 3 Hours

Max. Marks : 40

**SECTION – A
(Short Answer)**

Answer **all** questions.

(6×1=6)

1. What is an operating system ?
2. Differentiate between virus and worm.
3. What is meant by IPC ?
4. Explain fragmentation in memory management.
5. What is meant by paging ?
6. What is buffering ? Why it is used ?

**SECTION – B
(Short Essay)**

Answer **any 6** questions.

(6×2=12)

7. Briefly explain any four system calls with example.
8. What are the methods for handling deadlock ?
9. What is thrashing ?
10. Why virtual memory is used ?

P.T.O.



11. Explain demand paging.
12. How I/O protection implemented in OS ?
13. Write a note on disk management in OS.
14. What is meant by free space management ?

SECTION – C**(Essay)**

Answer **any 4** questions.

(4×3=12)

15. Briefly explain the structure of an operating system.
16. What are different process states in operating system ?
17. What is meant by contiguous memory allocation ?
18. What is LRU ? Explain with example.
19. Write a note on file sharing and protection.
20. What are the applications of an I/O interface ?

SECTION – D**(Long Essay)**

Answer **any 2** questions.

(2×5=10)

21. Explain the functions of an operating system in detail.
 22. What are preemptive and non preemptive scheduling algorithms ? Explain with examples.
 23. Write a note on deadlock, deadlock avoidance and deadlock prevention.
 24. What is segmentation ? Write a note on it.
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