Reg. No. : ....

Name : ....
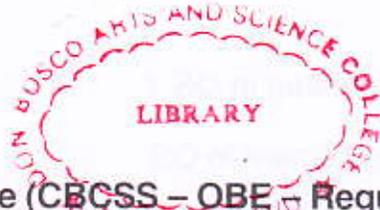
V Semester B.C.A. Degree (CBCSS – OBE – Regular/Supplementary/Improvement) Examination, November 2022
(2019 Admission Onwards)
Core Course
5B12BCA – OPERATING SYSTEMS

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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