



SN – 670

III Semester B.C.A. Degree Examination, November/December 2017
(Repeaters) (Y2K8 Scheme)
BCA 304 : OPERATING SYSTEMS

Time : 3 Hours

Max. Marks : 90/100

Instructions : i) Answer **all** Sections.

ii) Section **D** is applicable only to students who have taken admission in **2011 – 12** and onwards.

SECTION – A

Answer **any ten** questions.

(10×2=20)

1. Define Operating System.
2. Define SPOOLING.
3. Define Time sharing system.
4. Define Deadlock.
5. What is thrashing ?
6. List the different types of files.
7. Define Dynamic linking.
8. What is RR scheduling ?
9. What is pure demand paging ?
10. What is swap space management ?
11. What is a system call ?
12. What is Trojan Horse ?



P.T.O.



SECTION - B

Answer **any five** questions.

(5×5=25)

13. Explain Multiprogramming system.
14. Explain the states of a process.
15. Explain any 2 necessary conditions of Deadlock.
16. Explain Semaphores.
17. What is page fault ? Explain the steps involved in page fault.
18. Explain SCAN scheduling.
19. Explain the structure of Hard disk.
20. Explain virtual machine.

SECTION - C



Answer **any three** questions.

(3×15=45)

21. a) Explain FCFS CPU scheduling with example. 8
- b) Explain Parallel Operating System. 7
22. a) Differentiate b/w pre-emptive and non-preemptive scheduling. 7
- b) Explain priority CPU scheduling. 8
23. a) Explain Banker's algorithm. 9
- b) Explain any two file operations. 6
24. a) Differentiate paging and segmentation. 8
- b) Explain contiguous memory allocation. 7
25. a) Explain types of Fragmentation. 8
- b) Explain LRU page replacement algorithm with an example. 7



SECTION - D

III Semester B.C.A. Degree Examination, November/December 2017
Answer **any one** question : (Repeaters) (YMS Scheme) (1×10=10)

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26. Write short notes on :

- a) Virtual Memory.
- b) Look disk scheduling.

Max. Marks : 90/100

27. Write short notes on :

- a) MONITORS.
- b) Resource allocation graph.

(10×2=20)



- 1. Define the term...
- 2. Define...
- 3. Define...
- 4. Define...
- 5. What is...
- 6. List the differences...
- 7. Define Dynamic...
- 8. What is...
- 9. What is...
- 10. What is swap space management?
- 11. What is a system call?
- 12. What is Trojan Horse?