



K19U 0564

Reg. No. :

Name :

**IV Semester B.Sc. Degree (CBCSS – Reg./Supp./Imp.)
Examination, April 2019
(2014 Admission Onwards)
GENERAL COURSE IN COMPUTER SCIENCE
4A14CSC : Operating System**

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One word answer :**

(8×0.5=4)

- a) Batch processing is implemented by locating a component of the BP system is called _____
- b) Expand LBR.
- c) What is the basis of multi-programmed operating systems ?
- d) The solution to the problem of indefinite blockage of low-priority process is called _____
- e) Which provides a set of methods for ensuring that at least one of the necessary conditions can't hold ?
- f) The scan algorithm is sometimes called as _____
- g) In _____ system a series of jobs are executed without manual intervention.
- h) Deadlocks can be described in terms of a direct graph called _____

SECTION – B

Write short notes on **any seven** of the following questions :

(7×2=14)

2. What is a system call ?
3. What is time slice ?
4. What is context switch ?

P.T.O.



5. What are the advantages of RR scheduling ?
6. What is CPU-I/O burst cycle ?
7. What are deadlocks ?
8. What is process termination ?
9. Differentiate internal and external fragmentation.
10. What is context switch ?
11. When do you say that a process is in safe state ?

SECTION – C

Write short notes on **any four** of the following questions :

(4×3=12)

12. Explain IO subsystem with the help of the diagram.
13. Discuss the memory layout of a multiprogramming system.
14. Discuss process states with diagram.
15. Explain circular wait in deadlock prevention.
16. Explain SSTF scheduling with the help of an example.
17. How to select a disk scheduling algorithm ?

SECTION – D

Write short notes on **any two** of the following questions :

(2×5=10)

18. Discuss the three batch monitor functions.
 19. Discuss different scheduling criteria.
 20. Discuss Banker's algorithm with an example.
 21. Explain demand paging in detail.
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