K19U 0622

Reg. No. : ....

Name : ....

IV Semester B.C.A. Degree (CBCSS - Reg./Supp./Imp.) Examination, April 2019
(2014 Admission Onwards)
Core Course
4B 08 BCA : OPERATING SYSTEM

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One word** answer.

(8×0.5=4)

a) Interval between the time of submission and completion of a job is called

b) A scheduler which selects processes from a mass storage device is called

c) The OS of a computer serves as a software interface between the user and the

d) _____ algorithm is used to avoid deadlock in a system.

e) TLB stands for

f) _____ is the command used to make a directory.

g) In a disk, a track is further divided into

h) _____ occurs when a computer's virtual memory subsystem is in a constant state of paging.

SECTION – B

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

(7×2=14)

2. Write a note on swapping.

3. Define real time operating system.

4. Explain page fault.

5. What is latency time ?

6. Define spooling.

7. What is memory compaction ?

8. Define threads.

9. Write the basic principle of SJF scheduling policy.

10. What is ASM ?

11. What is a deadlock ?

SECTION – C

Answer **any four** of the following questions. (4×3=12)

12. What are the necessary conditions for a deadlock ?

13. What is demand paging ? Discuss the steps involved in handling a page fault.

14. With a neat diagram, explain the process life cycle.

15. List the components of a linux system.

16. Discuss any three general information models.

17. Discuss time sharing operating system.

SECTION – D

Write an essay on **any two** of the following questions. (2×5=10)

18. Discuss virtual memory.

19. Explain the various scheduling algorithms.

20. Explain I/O schedulers and I/O device handlers.

21. Discuss the following :
    a) Resource allocation graph
    b) Segmentation.