M 8516

Reg. No. : .....

Name : .....

IV Semester B.C.A. Degree (CCSS – Reg./Supple./Imp.)
Examination, May 2015
CORE COURSE
4B09 BCA : Operating Systems

Time : 3 Hours Max. Weightage : 21

SECTION – A

Answer **all** questions. Weightage for a bunch of **four** questions is **1**.

1. Systems in which correctness of functioning depends on the promptness of satisfaction of its computational requirements are called _____
2. Each process is represented in the operating system by a _____
3. A list of processes waiting for a particular I/O device is called a _____
4. The offset of the logical address varies between _____ **(W = 1)**
5. The percentage of times that a page number is found in the associative registers is called _____
6. A UID in UNIX is an integer between _____
7. A path name specified relative to the working directory is called _____
8. Spooling stands for _____ **(W = 1)**

SECTION – B

Answer **any 5** questions. Weightage **1 each**.

9. What are threads ?
10. Define a multi programming system.

P.T.O.

11. What is a job scheduler ?

12. What is compaction ?

13. What is a translation look aside buffer ?

14. Compare logical address and physical address.

15. What is a process ?

16. What is buffering ? **(5×1=5)**

SECTION – C

Answer **any 5** questions. Weightage **2 each**.

17. Explain the hardware support required for implementing paging.

18. Explain about the various types of interrupts.

19. Describe the techniques for deadlock prevention.

20. Explain the techniques used for managing and allocating dedicated devices.

21. Describe about symbolic file system.

22. What are the functions of an I/O scheduler ?

23. Distinguish between access control matrix and access control lists.

24. Explain the operating system layers in a UNIX system. **(5×2=10)**

SECTION – D

Answer **any one** question. Weightage **4**.

25. Explain memory management in UNIX.

26. Explain the Banker's algorithm. **(1×4=4)**
