

D 31093

(Pages : 2)

Name

Reg. No.....

THIRD SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2012

(CCSS)

BCA—Core Course

CA 3B 04--OPERATING SYSTEMS

Time : Three Hours

Maximum : 30 Weightage

I. Answer all questions.

- 1 POST is _____
- 2 Multiprocessor systems will have _____ processors.
- 3 Name any functionality of OS.
- 4 PCB stands for _____
- 5 FCFS is a _____ scheduling algorithm.
- 6 Semaphore is used for :
 - (a) File management.
 - (b) Device management.
 - (c) Booting.
 - (d) Process synchronization.
- 7 Name any one page replacement policy.
- 8 Virtual memory = Main memory + _____
- 9 Name any file systems structure.
- 10 Is it possible to protect a file from modification ? Yes or No.
- 11 Spooling stands for _____
- 12 Name any one of the functionality in Device Management.

II. Answer all questions.

(12 x ¼ = 3 weightage)

- 13 What are the various types of Operating System ?
- 14 Define timesharing system.
- 15 What are the various states of a process ?
- 16 What the conditions for the occurrence of deadlock ?
- 17 Discuss about any one of the page replacement algorithms.
- 18 What you mean V demand paging ?
- 19 Discuss about file system structure.
- 20 How the OS manages the free space ?
- 21 What are the techniques for device management ?

(9 x 1 = 9 weightage)

Turn over

III. Answer any *five* questions.

- 22 Discuss about distributed systems with examples.**
- 23 Discuss about hardware solution for mutual exclusion problem.**
- 24 How to recover from deadlock ?**
- 25 Discuss about working set principle.**
- 26 Discuss about file system design.**
- 27 Discuss about segmentation.**
- 28 Discuss about any *one* of the disk scheduling policies.**

IV. Answer any *two* questions.**(5 x 2 = 10 weightage)**

- 29 Discuss about semaphore with examples for mutual exclusion problem.**
- 30 Discuss about the working of paging system in detail.**
- 31 Discuss in detail about any *one* of the disk scheduling algorithms.**

(2 x 4 = 8 weightage)