



K17U 0088

Reg. No. :

Name :

VI Semester B.Sc. Degree (CCSS – Supple./Improv.) Examination, May 2017
CORE COURSE IN COMPUTER SCIENCE
6B16 CSC : Operating Systems
(2009-2013 Admns.)

Time : 3 Hours

Max. Weightage : 21

SECTION – A

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

1. Which of the following services not supported by Operating System ?
a) Protection b) Accounting c) Compilation d) I/O operation
2. Information about a process is maintained in a _____
3. Which of the following memory allocation scheme suffers from External fragmentation ?
a) Segmentation b) Demand paging
c) Swapping d) Paging
4. CPU performance is measured through _____
a) Throughput b) MHz
c) Flaps d) None of the above
5. To avoid the race condition, the number of processes that may be simultaneously inside their critical section is
a) 2 b) 1 c) 4 d) None of these
6. Which of the following Scheduling algorithm gives minimum average waiting time ?
a) Round robin b) SJF c) FCFS d) Priority
7. The size of virtual memory depends on the size of
a) Databus b) Main memory c) Address bus d) None of these
8. UNIX is
a) Multi User Operating System b) Time Sharing Operating System
c) Multi Tasking Operating System d) All of the above (Wt. : 1×2=2)

P.T.O.



SECTION – B

Answer **any five** questions. Weightage **1** for **each**.

9. What is demand paging ?
10. Differentiate between multi programming and multi processing.
11. What do you mean by virtual memory ?
12. Discuss the term turn around time.
13. What is POST ?
14. Explain the term starvation.
15. What is spooling ?
16. What do you mean by BFS (Be File System) ? (Wt. : 1×5=5)

SECTION – C

Answer **any five** questions. Weightage **2** for **each**.

17. What is an Operating System ? Discuss about its functions.
18. What do you mean by deadlock avoidance ? Explain the procedure for implementing deadlock avoidance.
19. Differentiate Internal and External fragmentation.
20. Discuss about static partitioned memory management scheme.
21. What do you mean by process state transition ? When does it occur ?
22. What is Semaphore ? Explain Wait and Signal operations with algorithm.
23. Discuss about the functions of Device management.
24. What are the main features of Unix Operating System ? (Wt. : 2×5=10)

SECTION – D

Answer **any one** questions. Weightage **4** for **each**.

25. What are different types of Operating System ?
26. Discuss process scheduling algorithm in detail. (Wt. 4×1=4)