

E 2174

(Pages : 2)

Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MAY 2015

Second Semester

Vocational Subject—Computer Science

INTRODUCTION TO OPERATING SYSTEM AND OS AS RESOURCE MANAGER

(For Model II B.Sc. Mathematics)

[2013 Admission onwards]

Time : Three Hours

Maximum : 80 Marks

Part A

Short Answer Questions.

Answer all questions.

1 mark each.

1. _____ is an example of CUI OS.
2. Who is the designer for windows NT operating system ?
3. The code placed around the system call to do checking is called _____.
4. APC stands for _____.
5. The set of pages in the physical memory referred to any moment is _____.
6. The virtual address space is divided into units called _____.
7. Associated with each I/O device class is a location called _____.
8. What is the expansion of MS-DOS ?
9. Give an example of a message-passing system.
10. LRU algorithm refers to the _____ memory management policy.

(10 × 1 = 10)

Part B

Brief Answer Questions.

Answer any eight questions.

2 marks each.

11. What is strong typing ?
12. What is ISR ?
13. What is Swapping ?
14. Why we need job scheduling ?
15. Explain the concept of virtual memory.

Turn over

16. Explain the term spooling.
17. What is up call ?
18. Name two ways to give better response time to important processes.
19. Is the open system call in UNIX absolutely essential ? Explain.
20. What is lottery scheduling ?
21. What is dirty bit ?
22. List the different version of windows 2000.

(8 × 2 = 16)

Part C

Descriptive / Short Essay Type Questions.

Answer any six questions.

4 marks each.

23. What is IPC and its issues ?
24. Explain different types of process termination.
25. Discuss the features and limitations of DOS.
26. Discuss about various process states.
27. Is the open system call in UNIX absolutely essential ? What would the consequences be of not having it ?
28. On all current computers, at least part of the interrupt handlers are written in assembly language. Why ?
29. Explain why two-level Scheduling is commonly used.
30. Compare paging and segmentation.
31. Discuss about various process states with a diagram.

(6 × 4 = 24)

Part D

Long Essay.

Answer any two questions.

15 marks each.

32. In detail explain scheduling philosophies and level of scheduling.
33. Differentiate in detail paging and segmentation.
34. Explain process and threads in Windows 2000.
35. Explain in detail about deadlock detection and recovery.

(2 × 15 = 30)