First Semester Diploma in Information Technology Examination

MODEL QUESTION PAPER

DIT1C02 – Fundamentals of Operating System

(With effect from 2012 Admission)

Time: 3 Hours   Total Marks: 100

Part A

(Answer any 10; Each Question carries 3 mark)

1. What is software? Explain its needs?
2. Explain advantages and disadvantages of assembly language.
3. What is a utility program?
4. Write a short note about time sharing operating system.
5. What is an operating system? What are its functions?
6. What do you mean by booting?
7. What is the difference between process and threads?
8. Describe about CPU scheduling.
9. Explain DMA mode of transfer.
10. Define Power on self test (POST).
11. What is an icon?. Where it is used?
12. Explain Round robin scheduling.
13. What is open software?
14. Differentiate between transient and resident memory?
15. What is contagious memory allocation?

Part B
(Answer any 10; Each Question carries 5 marks)

16. Explain different types of Operating Systems.
17. Give a short note about (i) Assembler (ii) Compiler
18. Differentiate between multitasking and multiprocessing operating system.
19. What you mean by dynamic linking and dynamic loading?
20. What are the components of an operating system?
21. Explain process states with the help of a neat diagram.
22. Differentiate between priority scheduling and non priority scheduling.
23. With the help of a block diagram explain Process Control.

24. Write a short note on operating system security.
25. Explain basic modes of input/output operation.
26. Briefly explain user interfaces in windows operating system.
27. Write down the basic operations used to handle windows file system.
28. Explain the concept of Linux distribution systems.
29. Differentiate between GUIs in Windows and Linux.
30. Explain any five basic commands used in Linux with examples.

Part C
(Answer any 2; Each Question carries 10 marks)

31. What are the different types of softwares? Explain.
32. Give an overview about different functions of operating system.
33. Explain any two scheduling algorithms in detail.
34. Describe the Linux Hierarchy of file system.

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