

Roll No.

Subject Code—652-X

P.G.D.C.A. EXAMINATION

(Second Semester)

(Re-appear)

MS-08

OPERATING SYSTEM

Time : 3 Hours

Maximum Marks : 100

Note : Attempt any *Five* questions. All questions carry equal marks.

1. State the structure of operating systems and also discuss its various types.
2. (a) Define a file and also discuss the various allocation methods in brief.
(b) State the necessities of file protection and also discuss how files can be protected from unauthorised users.

3. (a) State the importance of file directories.
(b) What do you mean by CPU scheduling ?
Discuss it and also name the various CPU scheduling algorithms.
4. (a) Name the various page replacement algorithms and discuss one algorithm of your own choice.
(b) Explain the following in brief :
(i) Thrashing
(ii) Swapping.
5. (a) What do you know about paging ?
Discuss it and also explain the page fault.
(b) Discuss the function of a device management.
6. (a) Why does the deadlock problem occur ?
Discuss it and also explain its characterizations.
(b) How can deadlock be avoided ? Explain it.

7. Explain the following :
(i) Shared data
(ii) Linux/Union operating system
(iii) Block and wake up
(iv) Mutual Exclusion.
8. Write short notes on the following :
(i) Processor Scheduling
(ii) Virtual Memory
(iii) Sector Queuing
(iv) MS-DOS.