

AU-279

M.Sc. (Part—I) Semester—I (C.B.C.S. Scheme) Examination
COMPUTER SOFTWARE (Old)
(Upto Winter-2018)
(Operating System)
Paper—II

Time : Three Hours]

[Maximum Marks : 80

Note :— (1) All questions are compulsory.
(2) Use suitable data wherever required.

1. (A) What is Operating System ? Describe the responsibilities of Operating System. 8
- (B) Explain the basic operations of buffer cache. 8

OR

2. (A) Draw architecture of UNIX system, explain multiple processes and mode of execution. 8
- (B) Explain various approaches for the users to interface with Operating System. 8
3. (A) What is inode ? Describe the fields of an in-core inode. 8
- (B) What is process control block ? Describe the different fields in it. 8

OR

4. (A) Explain process scheduling with the help of example. 8
- (B) What is context switching ? Describe the action taken by kernel in context switch. 8
5. (A) Describe swapping in detail. 8
- (B) Explain various main memory management policies in detail. 8

OR

6. (A) What is paging ? Explain demand paging. 8
- (B) Explain Hybrid system in detail. 8

7. (A) List the mechanism used for IPC. State their common properties. 8
(B) Explain process tracing system in detail. 8

OR

8. (A) What is Socket ? Describe socket interface in detail. 8
(B) Explain Remote Procedure Calls (RPC). 8
9. (A) Explain distributed UNIX Operating System. 8
(B) Explain the role of OS in master/slave environment. 8

OR

10. (A) Explain the multiprocessor system. 8
(B) Explain the concept of client/server computing. 8