

AU-361

M.Sc. (Part—II) Semester—II (CBCS Scheme) Examination

2MCSW2 : COMPUTER SOFTWARE

Paper—VI

(Distributed Operating System)

(New Course)

Time : Three Hours]

[Maximum Marks : 80

Note :— (1) All questions are compulsory.

(2) Assume suitable data wherever necessary.

(3) Draw neat sketches wherever necessary.

1. (a) Explain advantages of distributed system. 7
- (b) Explain group communication in distributed system. 7

OR

2. (a) Describe layered protocols. 7
- (b) Explain client server model. 7
3. (a) Describe clock synchronization in distributed system. 7
- (b) Explain prevention and detection of deadlock in distributed system. 6

OR

4. (a) Describe atomic transactions in distributed system. 7
- (b) Describe Ring algorithm. 6
5. (a) Explain architecture models for distributed system. 7
- (b) Describe the properties of good scheduler in distributed system. 6

OR

6. (a) Describe issues regarding processor allocation algorithm for distributed system. 7
- (b) Explain fault tolerance mechanism in distributed system. 6
7. (a) Describe distributed file system. 7
- (b) Explain distributed shared memory. 6

OR

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(Contd.)

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| 8. | (a) | Describe distributed file system implementation. | 7 |
| | (b) | Describe consistency model for distributed system. | 6 |
| 9. | (a) | Explain communication system in AMOEBA. | 7 |
| | (b) | Explain Directory Server. | 6 |
| OR | | | |
| 10. | (a) | Describe AMOEBA. | 7 |
| | (b) | Explain TCPIP server. | 6 |
| 11. | (a) | Describe memory management for MACH. | 7 |
| | (b) | Explain directory Services. | 7 |
| OR | | | |
| 12. | (a) | Describe Communication system for MACH. | 7 |
| | (b) | Explain security services. | 7 |