

22639

M. Tech. 1st Semester (CSE) CBCS Scheme

Examination, December-2018

ADVANCED OPERATING SYSTEM

Paper-MTCSE 21C2

Time allowed : 3 hours] [Maximum marks : 100

Note : Attempt five questions in all, selecting one from each unit. Q. No. 1 is compulsory.

1. Write short note on following :

- (i) Concurrent Process
- (ii) Vector Clock
- (iii) Fault Tolerance
- (iv) Threads. 20

Unit-I

2. Explain the following :

- (i) The Critical Section Problem
- (ii) Axiomatic Verification of Parallel Programs 20

3. Describe the following :

- (i) Re-usable Resources
- (ii) Process Deadlocks. 20

Unit-II

4. What do you mean by Distributed Resource Management ? Explain in detail.

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5. Describe the following :

- (i) Suzuki-Kasami's Broadcast Algorithm
- (ii) Non-Token Based Algorithms. 20

Unit-III

6. What do you mean by Failure Recovery and Fault Tolerance ? Explain in detail. 20

7. Describe the following :

- (i) Two phase and non blocking Commit Protocols
- (ii) Dynamic Voting Protocols. 20

Unit-IV

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8. Explain the following :

- (i) Process Synchronization
- (ii) Memory Management. 20

9. Describe the following :

- (i) Distributed Database Systems
- (ii) Concurrency Control. 20

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