

M-190145**B.Tech. EXAMINATION, 2019**

Semester VI (CBS)

DISTRIBUTED OPERATING SYSTEM

CS-602

Time : 3 Hours

Maximum Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt a total five questions. Q. No. 9 is compulsory. Select one question from each Section.

Section A

1. What is distributed system ? What are the various design issues ? Explain. 10
2. What is Remote Procedure Call (RPC) ? Explain the security issues of RPC. Explain. 10

Section B

3. What is Deadlock ? How can it be handled in distributed system ? Explain. 10
4. What are the different clock synchronization algorithms in distributed system ? Explain. 10

Section C

5. Explain shared variables in distributed shared memory in detail. 10
6. What are the advantages offered by object based distributed shared memory ? Explain it in detail. 10

Section D

7. (a) Differentiate between stateless and stateful servers. 5
(b) Explain trends in distributed file system in brief. 5
8. Discuss page based distributed shared memory model in detail. 10

9. (a) What do you mean by an open system ? 2
- (b) Define event triggered real time system. 2
- (c) Name *two* properties that immutable files have. 2
- (d) What is MIMD computer ? 2
- (e) Name five transaction primitives. 2
- (f) What is the function of stubs generated at the client side and the server side ? 2
- (g) What are consistency models ? 2
- (h) Define network operating system. 2
- (i) What is SIMD Computer ? 2
- (j) What is Networks Operating System ? 2