[Total No. of Questions - 9] [Total No. of Printed Pages - 2] (2068)

18227(M)

B. Tech 6th Semester Examination

Distributed Operating Systems (CBS)

CS-602

Time : 3 Hours

Max. Marks : 60

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

Note : Attempt total 5 questions, Question no. 9 is compulsory. Select one question from each section.

SECTION - A

- What is distributed system? Explain advantages and disadvantages of Distributed Systems over Centralized Systems. (10)
- 2.[★] How Communication is performed through Remote Procedure Call (RPC). Explain with the help of diagram. (10)

SECTION - B

- What is synchronization? List the various clock synchronization algorithm. Explain any one of them. (10)
- Why Election Algorithm is needed? Explain Bully algorithms with an example. (10)

SECTION - C

- Explain shared variables in distributed shared memory in detail. (10)
- (a) What are the advantages offered by page based distributed shared memory? (5)

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(b) Explain consistency models in detail. (5)

SECTION - D

2

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

SECTION - E

- 9. (a) What is group communication? What is use of it?
 - (b) Difference between loosely coupled and tightly coupled operating system.
 - (c) What is MIMD? Explain.
 - (d) Difference between logical and physical clock.
 - (e) What do you mean by an open system?
 - (f) Define Inter Process Communication (IPC).
 - (g) Explain the term thrashing.
 - (h) What do you mean by process migration?
 - (i) What is file models?
 - (j) What is network operating system? (10×2=20)

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