(CSC 8305 B1)
B.Sc Degree (CBCS) Examinations
SEPTEMBER - 2020
EXAMINATION AT THE END OF SEMESTER- VI
PART-II COMPUETR SCIENCE
DISTRIBUTED SYSTEM

TIME : Two hours | Maximum : 60 Marks

Section – A

Answer any FOUR of the following questions **4x6 = 24 Marks**

1. What is Transparency? Write any four Transparencies.
2. Explain in short heterogeneity in Distributed System.
3. What is buffering in Distributed message passing system.
4. Write any four desirable features of a good message passing system.
5. Write any four advantages of Distributed Shared Memory.
6. Explain in short basic idea of Task assignment approach in Distributed System.
7. Differentiate between centralized and Distributed Dynamic scheduling algorithms.
8. Write any four differences between Replication & Caching in Distributed File System.
9. Write any four advantages of replication in Distributed File System.
10. Write any four factors influencing Block Size Selectors in GRANULARITY.

Section – B

Answer any THREE of the following questions **3x12 = 36 Marks**

11. a) Explain all the examples of Distributed Systems.

(OR)

b). Describe all the System models in Distributed System.

12. a) Explain all RPC messages in Distributed System.

(OR)

b) Explain briefly about RPC based Server Management in Distributed System.

13. a) Explain in brief design and implementation issues of Distributed Shared Memory.

(PTO)

(OR)

b) Explain all the consistency models in Distributed Shared memory.

14. a) What are different Load sharing policies in Distributed System..

(OR)

b) Explain the process Migration Mechanism in Distributed System.

15. a) Explain File Sharing semantics with Unix file system.

(OR)

b) What are atomic transactions? Explain their properties.

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B.Sc Degree (CBCS) Examinations

AUGUST - 2021

EXAMINATION AT THE END OF SEMESTER- VI

PART-II COMPUTER SCIENCE

DISTRIBUTED SYSTEMS

TIME : Three hours | Maximum : 60 Marks

SECTION – A

Answer any FIVE of the following **5 x 4 = 20 M**

1. What is Distributed System?
2. Write about processor pool model
3. What are the various features of a Message Passing System
4. Write about Stub Generation
5. What is Distributed Shared Memory? Explain various issues involved in design and implementation of Distributed Shared Memory Systems?
6. Briefly discuss about Election algorithms
7. Write about various advantages of Process Migration Mechanism
8. Write about File replication
9. Write about Authentication
10. Briefly discuss about Load Sharing Approach

SECTION – B

Answer the following questions **5 x 8 = 40 M**

11. (a) Write about various Distributed Computing System Models.

(OR)

(b) Explain issues in designing a Distributed Operating System.

12. (a) Write about Communication Protocols for RPC

(OR)

(b) Explain the mechanism of implementing RPC

13. (a) Describe Granularity and Consistency Model

(OR)

(b) What is Deadlock? Briefly discuss about Deadlocks in Distributed Systems

(PTO)

14. (a) Discuss about Load balancing approach

(OR)

(b) Write short notes on Threads in Distributed Systems

15. (a) What is Cryptography? Explain about its benefits and Drawbacks

(OR)

(b) Briefly discuss about Access Control and Digital Signatures

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