F 9063

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Reg.	No
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B.TECH. DEGREE EXAMINATION, NOVEMBER 2011

Eighth Semester

Computer Science and Engineering/ Information 'l'echnology

DISTRIBUTED COMPUTING (Elective-II) (RT)

[Supplementary]

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions. Each question carries 4 marks.

1. Define distributed systems? What are its characteristics?

2. Define transparency? List the various types of transparency?

3. With the help of figure explain the file service architecture ?

- 4. Write a note on AFS.
- 5. Describe marshalling?

6. What you mean by message passing? How it is achieved?

7. Explain the thread scheduling mechanism in distributed systems?

8. Differentiate static and dynamic scheduling?

9. Define transaction recovery ?

10. With example explain Byzantine failures?

 $(10 \times 4 = 40 \text{ marks})$

Part B

Each question carries 12 marks.

11 Explain the various design issues in distributed systems ?

(12 marks)

Or

12	Describe	the fol	lowing	:
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(i) System architecture of Amoeba.	(4 marks)
(ii) Process management in Amoeba.	(4 marks)
(iii) Communicaiton in Amoeba.	(4 marks)
Write in detail the implementation of file system ?	(12 marks)

Or

Turn over

14. Write note on : (a) Name space. (3 marks (b) Name resolution. (3 marks (c) DNs. (6 marks 15. Explain the various clock synchronization algorithms used in distributed systems. (12 marks Or (a) Strict consistency. (4 marks) Time : (b) Weak consistency. (4 marks) (c) Entry consistency. (4 marks) 17. With figure explain the sender initiated algorithm? (12 marks) Or 18. Explain the bidding algorithm in detail? (12 marks) 19. Explain the following :---(a) Deadlock prevention. (6 marks) (b) Deadlock detection. (6 marks) Or

20. List the different types of faults ? With figure explain the fault tolerance using active replications?

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(12 marks) $(5 \times 12 = 60 \text{ marks})$

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