

16-12-2016



Q.P. Code : 735403

(3 Hours)

Total Marks : 80

Note : 1) Q.No.1 is compulsory

- 2) Attempt **any three** out of remaining **five** questions.
- 3) Assume suitable data wherever required with justification.

1. (a) Explain with example Amdahl's law for measuring speed up performance of parallel systems. 5
 - (b) Define various pipeline performance measures. 5
 - (c) State the goals of distributed system. 5
 - (d) State the desirable features of global scheduling algorithm 5
 2. (a) Write a note on Pipeline Hazards. 10
 - (b) Explain in brief any three classification of parallel Architecture. 10
 3. (a) Write a note on Election algorithm. 10
 - (b) Explain the concept of Remote Procedure Call 10
 4. (a) Give one example that can be solved effectively with an SIMD architecture. 10
 - (b) Explain in brief the software concept of distributed systems. 10
 5. (a) Explain the need of client centric consistency models as compared to data centric consistency model. Explain any two client centric consistency model. 10
 - (b) Explain Load balancing approach in distributed system. 10
 6. Write short notes on (Any two):- 20
 - (i) Andrew file system (AFS).
 - (ii) Raymond's Tree based algorithm.
 - (iii) Code Migration
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