1. Why do we need leader in distributed computing? Describe any two leader election algorithm.
2. Describe about data driven and demand driven data flow model.
3. Explain any two models for semantic of concurrent programming.
4. How do we manage checkpointing in parallel and distributed system?
5. Describe the four parallel processing paradigms.
6. Illustrate the observable and unobservable action with an example.
7. List the symbols and their purposes of basic primitives of data flow.
8. Write short notes on axiomatic semantic definition.
9. Write short notes on alternating turing machine.
10. Mention the semantic definition for await then rule. Describe about observation bisimilarity with example.
11. What does dual nature of TM means? State the formal definition of generalized BSR model.
12. List any two model for communication.
13. What is domino effect? Discuss about open distributed system.
14. List any two basic primitives for data flow model. Describe about LogP model.
15. How do you perform scheduling in partitioning and scheduling?
16. Explain the properties of petri nets.
17. Why do we need parallel computing? What might be the reasons behind choosing the RAM machine for modeling and characterizing parallel algorithm? Describe the models of concurrent programming.
18. Explain the formal definition of Generalized BSR model? List the types too.
19. Explain the significances of check pointing in parallel and distributed computing. Describe how check pointing with simple rollback ensure consistent check pointing.
20. Define petri nets. What are the purposes of colored petri net?
21. Write short notes on open distributed system.
22. Write short notes on parallel reduction operation.
23. Write short notes on PRAM model.