**IT18703 Cloud Computing**

**UNIT 1 : Introduction**

**Question Bank**

**Unit I**

Two Marks

1. State the difference between High Performance Computing (HPC) and High Throughput Computing (HTC)?
2. Define computational grid and data grid.
3. What are the different categories of peer-to-peer families?
4. What are the design principles of computer cluster?
5. What are the types of overlay network?
6. Define Single System Image (SSI) and its features.
7. Define MTTF.
8. How the optimal checkpoint interval can be chosen?
9. Define consistent snapshot.
10. What is Load sharing Facility (LSF)?
11. Define multi core CPU?
12. Explain briefly about dynamic scalability architecture.
13. Define cloud usage monitor and resource replication.
14. Difference between distributed and parallel computing?
15. List the design issues in clusters?
16. Define peer-to-peer network?
17. Define anything-as-a-service?
18. What is mean by SaaS?
19. What is mean by IaaS?
20. What is mean by PaaS?
21. Explain cloud provider and cloud broker?
22. What is the role of cloud auditor?
23. Define private cloud?
24. Define public cloud?
25. Define hybrid cloud?
26. Why communication cloud is important?
27. List the characteristics of cloud computing?
28. What is the role of schedulers in the computational grids?

16 Marks

1. Explain about massive parallelism in design?
2. Explain in detail about high availability through redundancy.
3. Explain briefly about checkpoint and recovery techniques.
4. Explain the Cluster Architecture in detail?
5. Explain in detail about peer-to-peer network families.
6. Explain in detail about cluster job and resource management.
7. Explain the various types of cloud computing architecture.
8. Explain in detail about NIST cloud computing architecture.
9. Discuss the pros and cons of cloud computing.
10. Explain in detail about cloud service models.
11. How will you deploy the cloud under various models?
12. Explain design challenges in cloud.
13. Explain the architecture of P2P system?
14. Explain the cloud eco system?
15. Discuss the major trends in computing that have led to the emergence of Cluster computing.
16. Describe the design issues and the architecture of Cluster computing systems.
17. What are the key distinctions between Cluster and Cloud computing?