Distributed Systems
Assignment –II

Section: 1, 2 & 3   Faculty: NS & PS

1. List out any four CORBA services?

2. What are the useful requirements for distributed system being fault tolerant?

3. What are the different types of failure models in distributed systems?

4. Explain about Byzantine Agreement Problem with 3 non faulty processes and one faulty process?

5. Explain about RPC's semantics in the presence of failures?

6. Explain and compare the services provided by CORBA, DCOM, and GLOBE?

7. Explain about different types of ordering multicasts with examples?

8. Explain about 2 Phase Commit Protocol. How does 3 Phase Commit Protocol differ from 2 Phase Commit Protocol?

9. Is a file server implementing NFS version 3 required to be stateless?

10. Write down six top-level MIME types and some common sub-types.?

11. Does NFS implement entry consistency? What about release consistency?

12. Explain the difference between a plug-in, an applet, a servlet and a CGI program?

13. Draw the architecture of SUN NFS and explain the flow control of SUN NFS?

14. Explain in detail about file sharing, client side caching, and server side replication in CODA file system with neat diagram?

15. Draw the layered architecture of JINI system

16. Explain about HADOOP?

17. Explain about coordination models along with temporal and referential dimensions?

18. Write short notes on Windows AZURE.?

19. Explain in detail about Map-Reduce programming approach with suitable example?

20. Explain about apache web?

21. Explain about synchronization in Distributed coordination - based systems?

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