

## BE Semester- 7th (Information Technology) Question Bank

### (GRID COMPUTING)

All questions carry equal marks (10 marks).

Q.1	What is computational Grid? Why it is needed?
Q.2	Discuss Grid requirements of end users, application developers, tool developers, grid developers, and system managers.
Q.3	Write a short note on Globus Toolkit.
Q.4	Explain Grid computing Architecture with diagram and components in detail.
Q.5	What is resource in grid? Discuss Grid Resource broker in grid.
Q.6	Explain Open Grid Service Architecture.
Q.7	Discuss applications of Grid computing.
Q.8	Discuss Grid Scheduling mechanism.
Q.9	Discuss about Grid computing platforms and Operating Systems.
Q.10	Discuss Grid computing networking infrastructure.
Q.11	Discuss Quality of Service in Grid Infrastructure.
Q.12	Discuss about Grid Security in detail.
Q.13	Define Grid Computing. Explain Condor Middleware in detail.
Q.14	Discuss Legion Grid Architecture in detail.
Q.15	Draw and explain Grid Portal Architecture.
Q.16	Discuss Grid computing networking protocols.
Q.17	Discuss about Grid Accounting in detail.
Q.18	Discuss Authentication, authorization, and policy for grid computing.
Q.19	Describe The evolution of the Grid and different generations.
Q.20	Write short note on The Semantic Grid.
Q.21	Write short note on Grid Scheduler.
Q.22	Discuss Grid computing models.
Q.23	Explain the Use of OGSA mechanisms to build VO structures.
Q.24	Explain Grid Web services.
Q.25	Discuss Grid application factories.
Q.26	Describe Core Legion objects.
Q.27	Explain Planning and scheduling with reference to Condor.
Q.28	Discuss The range of uses of databases on the Grid.
Q.29	List and explain Desirable features of Grids.
Q.30	Discuss Grid data models.
Q.31	Discuss Scalability, Availability and Robustness for Grid.
Q.32	Explain Split execution with reference to Condor.
Q.33	Write short note on Data Grid services.
Q.34	Explain Master–Worker with reference to Condor.
Q.35	Discuss Manageability, Monitorability and Integration for Grid.
Q.36	Explain The database requirements of Grid applications.
Q.37	Discuss Service discovery, Interoperability and compatibility for Grid.
Q.38	Explain Directed Acyclic Graph Manager with reference to Condor.
Q.39	Explain real-time access to distributed instrumentation systems with example.

Q.40	Discuss The need for Grid technologies.
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