

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. Sem. – IInd - Examination – June/July- 2011

Subject Code: 1722306

Subject: Cloud and Grid Computing

Date: 29/06/2011

Time: 10:30 am – 01:00 pm

Total Marks: 70

Instructions:

- (i) **Figure to RIGHT indicates FULL marks**
- (ii) **Assume data whenever and wherever necessary**
- (iii) **Use Standard Conventions for symbols be used in examples in text**

Q.1 Attempt any two 14

- (i) Discuss Resource Management in GRID Computing.
- (ii) List Grid Meta models and discuss any two of them.
- (iii) List Various Cloud Applications for Software Application As Service Model (SaaS) Model and Give it's features how it is different from Traditional Client/Server Software and Desktop
- (iv) What are Advantages of Online Project Management as Cloud Service over Traditional Desktop based MS-Project

Q.2(A) Describe architecture of Sun Grid Engine 5

- (B) How resource balancing is achieved in Grid Computing Environment? 9**
Discuss it with a suitable example.

OR

Q.2(A) Discuss the essential components of Grid Application Software and explain its working. 5

- (B) Explore the Google Calendar in the Context of Cloud Application and either as PaaS or SaaS. And Show How does “eStudio Calendar for Business” provides business features? 9**

Q.3 Attempt any TWO 14

- (i) Define Event Schedules and Management and Discuss the web-based event management applications for Online Hotel Booking and Online Payment
- (ii) How Contact Lists are Managed? And Discuss the Web based CRM for managing Contacts with its features and Advantages over
- (iii) How Marketing Materials are Created Using Collaborations on Cloud and Explain it how it helps to build Virtual Company?

Q.4(A) How Grid programming models support virtualization? 7

- (B) What are performance monitoring issues in Grid Computing? 7**

OR

Q.4(A) Briefly discuss Grid Security. 7

- (B) Explain in detail “The Network Is the Computer:” concept and show how Cloud Computing Works. 7**

Q.5 Attempt any FOUR.

14

- (i) What is Virtual Community in Cloud and How it is Significant for Business Data Center?
- (ii) Show the Usage of Jiffle and Presdo Online web-based solutions for meeting scheduling
- (iii) Explore the Online Planning and Task Management and Show How iPrioritise helps for managing to-Do list for Business and Community group.
- (iv) Explain Cloud Service for Conference.com's interlocking event management modules.
- (v) Explain Project Management Application on Cloud and Discuss the Functions Provided by **"The web-based project management program known as @task (www.attask.com)"**
