Seat No.: ___ Enrolment No. GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER-IV • EXAMINATION – SUMMER • 2015 Subject Code: 2640013 Date: 20-05-2015 **Subject Name: Cloud Computing** Time: 10:30 am - 01:00 pm **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. Q.1 List and Explain Characteristics, benefits and Challenges of Cloud 7 Computing. Differentiate Shared and Distributed memory architecture with neat diagram. 7 (b) Q.2 What is the significance of Virtualization in Cloud Computing? Explain the 7 taxonomy of virtualization techniques. Write short note on Xen: Para virtualization. 7 (b) Explain the Technology VMware: full virtualization. (b) Q.3 Define Cloud Computing. Explain with example IAAS(Infrastructure as a 7 (a) service). What are the types of Cloud? Explain any two in detail. 7 (b) 7 (a) How cloud computing applications can be usefull for Geoscience and Healthcare? (b) What kinds of needs are addressed by heterogeneous clouds? 7 7 Q.4 What does the acronym SaaS mean? How does it relate to cloud computing? How does cloud computing help to reduce the time to market for applications 7 and to cut down capital expenses? OR Write short note on worker Threading Model in Amazon AWS Flow 7 (a) Framework 7 Explain Architecture of Google AppEngine. (b) 7 Q.5 How do you achieve energy efficiency in Cloud Computing? Explain any one method for energy efficiency. 7 What do you mean by AWS Cloud Formation? What you can manage (b) using AWS Cloud Formation? OR Explain Federated Cloud and Inter Cloud. 7 (a) Explain Error Handling Mechanism in Amazon AWS Flow Framework. 7 (b)
