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B.E. (Computer Science & Engineering) Eighth Semester (C.B.S.)

Elective - III: Clustering & Cloud Computing

P. Pages: 2 NJR/KS/18/4751 Time: Three Hours Max. Marks: 80 Notes: 1. All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. 2. Solve Question 3 OR Questions No. 4. 3. 4. Solve Question 5 OR Questions No. 6. 5. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. 6. Solve Question 11 OR Questions No. 12. 7. What is cloud computing? Explain the different characteristics of cloud computing in detail. 1. a) Explain the advantages & limitations of cloud computing. b) 6 OR Differentiate between the cluster, grid & cloud computing. 8 a) b) Explain the different challenges & legal issues in cloud computing. Draw & explain the detailed architecture of cloud computing. 3. a) Define virtualization. What is the need of virtualization in cloud computing? b) OR Explain the different services provided by cloud computing. Explain characteristics, 4. advantages, limitations & service providers for each of the cloud servicer. List & explain the advantages & limitations of different deployment models in cloud b) computing. Define big data, explain the characteristics of big data in detail. 5. 6 a) List the different data units used (from smaller to largest) 2 b) List the different techniques used for clustering the big data. Explain k-means clustering. c) OR Explain the Hadoop Map Reduce Job execution with the help of neat diagram. 6. a) 7 List & explain the different steps involved in Hadoop cluster setup. b) Explain the different key security challenges for cloud applications. a)

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diagram for Role based access control in the cloud. OR 13 Write short notes on any three. i) Application level security. ii) Infrastructure level security. iii) Virtual Machine security. Network level security. iv) 9. Explain the different object oriented concepts in C# .Net with the help of examples. a) Draw & explain ADO .NET architecture. b) OR 10. Explain the Anatomy of .ASPX page. Create a sample Registration form using ASP .NET. 8 Write a program in C# to design calculator as console based application. b) 6 Explain the different types of storages in windows azure. 11. 7 a) Explain the complete Azure life cycle in detail. b) OR **12.** Write down the steps involved in deployment of an application to windows Azure cloud. a) What are the steps for creating a simple cloud application using Azure. Explain with the b) help of an example.

Explain the concept of Identity & Access Management in cloud computing with neat



The secret of getting ahead is getting started. ~ Mark Twain

