

May 2017

B.E. SEM VII CBBS (II) R-200

Cloud Computing Q.P. Code : 800300

(3 Hours)

Total Marks : 80

Note : 1) Question no. 1 is compulsory.

2) Attempt any three from remaining five questions.

3) Assume suitable data, if necessary.

1. a. What are advantages and limitations of Cloud Computing? 5
- b. What are the levels used for virtualization? 5
- c. Differentiate between cloud and traditional application Architecture? 5
- d. What are the factors for successful cloud deployment? 5
2. a. Explain different OPEN STACK cloud services with architecture 10
- b. Explain the architecture and features of EBS. 10
3. a. What is virtualization? Explain any one virtualization software architecture. 10
- b. Explain cloud based service delivery and deployment models with example 10
4. a. Explain different risks and mitigation techniques associated with cloud? 10
- b. What are public cloud adoption phases for SMBs? What are cloud vendor roles and responsibilities towards SMBs? 10
5. a. Explain challenges faced in cloud for data storage? 10
- b. Explain AAA model in detail along with its industry implementation? 10
6. Write a note on 20
  1. CSB
  2. CSG
  3. GAE
  4. GFS

**QP CODE : 814500**

3 Hours

[80 marks]

- Note:** 1. Question number 1 is compulsory.  
2. Solve any **three** questions out of the remaining **five** questions  
3. Assume suitable data if necessary  
4. Figure indicate marks

- Q1. A. A mobile communication system is allocated RF spectrum of 25 MHz and uses RF channel bandwidth of 25 KHz so that total number of 1000 voice channels can be supported in the system. [10]  
a) If the service area is divided into 20 cells with a frequency reuse factor of 4, compute the system capacity.  
b) The cell size is reduced to the extent that the service area is now covered with 100 cells. Compute the system while keeping the frequency reuse factor as 4.  
c) Consider the cell size is further reduced to that the service area is now covered with 700 cells with the frequency reuse factor of 7. Compute the system capacity.
- B. Explain in detail EDGE Network Architecture with neat diagram. [10]
- Q2. A. Explain in detail GPRS Architecture with neat diagram. [10]  
B. Explain in detail CDMA Architecture with neat diagram. [10]
- Q3. A. Give in detail comparison between WiMax and LTE/3GPP. [10]  
B. Explain in detail Bluetooth Protocol Stack with neat diagram. [10]
- Q4. A. Neatly explain the WLL Architecture. Explain the two local loop techniques with diagram [10]  
B. Explain in detail GSM Privacy and Authentication with neat diagram. [10]
- Q5. A. Explain the main factors of change in economics of wireless technology. [10]  
B. Explain the Wired Equivalent Privacy Protocol. Also explain WEP security based on the access control list with neat diagram. [10]
- Q6. Write short notes: [20]  
a. Compare CDMA 2000 & W-CDMA  
b. Mobile IP.  
c. IEEE 802.11 standards.  
d. Wireless Sensor Network.
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