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**Question Paper Code: 57202**

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2022

Seventh Semester

Computer Science Engineering

15UCS702 - INSIGHT INTO CLOUD COMPUTING

(Common to Information Technology)

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

- Which of the following is not an internet technology? CO1- R  
(a) Web Services    (b) Clusters    (c) Service Oriented Architecture    (d) Web 2.0
- \_\_\_\_\_ controls the execution, inspection and termination of VM instances on the host where it runs. CO2- R  
(a) Storage Controller    (b) Cloud Controller    (c) Walrus    (d) Node Controller
- Virtual Machine managers are CO3- R  
(a) VMWare, vCloud, Eucalyptus    (b) Xen, KVM, VMware  
(c) EC2, S3, KVM    (d) Java, Python, JRuby
- \_\_\_\_\_ standard is used for packaging the application for cloud platform. CO4- R  
(a) CIM    (b) SLA    (c) OVF    (d) MSP
- \_\_\_\_\_ is the feature of Cloud Computing that allows the service to change in size or volume in order to meet a user's needs. CO5- R  
(a) Scalability    (b) Virtualization    (c) Security    (d) Cost Savings

PART – B (5 x 3= 15 Marks)

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|-----|--|--------|
| 6.  | Draw the cloud computing stack.                                      | CO1- R |
| 7.  | Explain the steps to provision VM.                                   | CO2- R |
| 8.  | Recall the advantages of the private cloud computing infrastructure. | CO3- R |
| 9.  | What is Data Loss or Leakage?  | CO4- R |
| 10. | List the challenges in managing heterogeneous clouds.                | CO5- R |

PART – C (5 x 16= 80Marks)

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|-----|---|--------|------|
| 11. | (a) Explain the evolution of SaaS and the challenges of SaaS paradigm.  | CO1-U  | (16) |
|     | Or  |        |      |
|     | (b) Discuss the Roots of Cloud Computing.   | CO1-U  | (16) |
| 12. | (a) Identify the Scheduling Techniques for advance reservation of capacity.   | CO2-U  | (16) |
|     | Or  |        |      |
|     | (b) Analyze VM migration techniques.  | CO2-U  | (16) |
| 13. | (a) Analyze the Aneka framework architecture with neat diagram.   | CO3-U  | (16) |
|     | Or  |        |      |
|     | (b) Examine the Mapreduce programming model using the wordcount example.  | CO3-U  | (16) |
| 14. | (a) Discuss security concerns in traditional IT and challenges in cloud computing in terms of application security. | CO4- U | (16) |
|     | Or  |        |      |
|     | (b) Explain different vendors offering Cloud Security for public and private clouds.                                | CO4- U | (16) |
| 15. | (a) Discuss the benefits and advantages of multi-cloud management systems.  | CO5- U | (16) |
|     | Or  |        |      |
|     | (b) Discuss the Various Biz Clouds focused on industry domains.   | CO5- U | (16) |