

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]  
(2064)

14857

**MCA 4th Semester Examination**

**Cloud Computing**

**MCA-E45**

**Time : 3 Hours**

**Max. Marks : 60**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Attempt five questions in all. Question no. 9 in Section E is compulsory. Rest, attempt one question each from each of the Sections A, B, C & D.

**SECTION - A**

1. What is cloud computing? Explain its characteristics. Discuss various components of cloud computing. (10)

OR

2. Discuss SAAS, PASS and IAAS and compare them. (10)

**SECTION - B**

3. What is AJAX? Discuss its asynchronous rich interfaces. Also discuss mashup user interface services. (10)

OR

4. What are multitenant softwares? Discuss multischema approach to multitenancy. (10)

**SECTION - C**

5. Discuss map-Reduce in details. (10)

14857/60

[P.T.O.]

---

OR

6. Discuss issues with (a) intercloud environment (b) QoS in cloud. (10)

**SECTION - D**

7. What is a micro-architecture? Discuss identity management and access control-identity management. (10)

OR

8. Write down the features and functions of Nimbus and T Platform. (10)

**SECTION - E**

9. Write brief short notes on the following:

- (a) Cloud service
  - (b) Deployment of service on cloud
  - (c) Utility computing
  - (d) SOAP
  - (e) Sky computing
  - (f) Virtualization
  - (g) QoS on cloud
  - (h) Secure communication in cloud. (8×2.5=20)
-