Total No. of Questions : 09

M.Sc.(IT)   (Sem.–3)

CLOUD COMPUTING

Subject Code : PGCA-1937

M.Code : 78404

Date of Examination : 19-12-2022

Time : 3 Hrs.   Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION - B & C have FOUR questions each.**
3. **Attempt any FIVE questions from SECTION B & C carrying TEN marks each.**
4. **Select atleast TWO questions from SECTION - B & C.**

SECTION-A

1. **Write short notes on :**

   a) Big Data analytics

   b) Mobile computing

   c) Public cloud with example

   d) Hypervisor

   e) Grid computing

   f) Load testing

   g) VMware

   h) Pros of cloud migration.

   i) SLA

   j) Application life cycle

SECTION-B

2. Discuss the different cloud deployment models and scenarios in detail.

3. Discuss the cloud reference model. Compare benefits and challenges/issues related to cloud computing?

4. a) Why virtualization is considered as the key technology behind cloud computing?

   b) Explain the taxonomy of various virtualization techniques.

5. a) Define scaling and why it is considered as an important factor in capacity planning?

   b) Write short notes on resource ceilings and system metrics.

SECTION-C

6. a) Discuss various types of SLA present in cloud computing.

   b) How automated policy-based management helps in maintaining SLAs on cloud computing?

7. Describe the security issues related to cloud computing? Discuss the importance of encryption and compliance in ensuring data security in cloud data centres.

8. **Write short notes on any two:**

   a) Energy efficiency in cloud

   b) Internet of Things (IoT)

   c) Resource management on cloud

9. Discuss the Google AppEngine architecture and its applications.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.