

**MASTER OF SCIENCE (COMPUTER SCIENCE) (CBCS-2018 COURSE)**  
**M.Sc. (Computer Science) Sem-II :SUMMER- 2022**  
**SUBJECT : CLOUD COMPUTING**

Day : Tuesday  
Date : 5/7/2022

**S-20044-2022**

Time : 03:00 PM-06:00 PM  
Max. Marks : 60

---

**N. B. :**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
- 

**Q. 1** Define Cloud Computing. Explain various types of cloud computing (15) techniques with its advantages and drawbacks.

**OR**

Elaborate the need of Virtualization. Also discuss types of virtualization in detail.

**Q. 2 A)** Attempt **ANY ONE** of the following: (08)

- i) Describe different challenges faced by Cloud platforms.
- ii) Explain SaaS and IaaS in Cloud Services.

**Q. 2 B)** Attempt **ANY ONE** of the following: (07)

- i) Elaborate the architectures of 'SalesForce' and 'Google' App engine.
- ii) Discuss various services provided by Microsoft Azure.

**Q. 3** Attempt **ANY THREE** of the following: (15)

- a) Explain the process of collaborating on calendars and task management.
- b) What is meant by Hypervisor? Also explain KVM and VMWare.
- c) Describe database as a Service with benefits.
- d) Explain standards for distributed management Task Force.
- e) What is System Virtual Machine? State its properties.

**Q. 4** Write short notes on **ANY THREE** of the following: (15)

- a) MapReduce
- b) Hadoop Framework
- c) Collaborating via Social Networks
- d) Nimbus
- e) Evolution of Cloud Computing

\* \* \* \* \*