

(1 hour)

[Total Marks: 25]

- N. B.: (1) **All** questions are **compulsory**.
 (2) Make **suitable assumptions** wherever necessary and **state the assumptions** made.
 (3) Answers to the **same question** must be **written together**.
 (4) Numbers to the **right** indicate **marks**.
 (5) Draw **neat labeled diagrams** wherever **necessary**.
 (6) Use of **Non-programmable** calculators is **allowed**.

1. Attempt any two of the following:

13

- Explain the cloud computing reference model with the help of a diagram.
- Explain the characteristics and benefits of cloud computing for cloud service consumers (CSCs) and cloud service providers (CSPs).
- Write a Short Note on
 - Single-instruction, single-data (SISD) systems
 - Single-instruction, multiple-data (SIMD) systems
 - Multiple-instruction, single-data (MISD) systems
- What is virtualization? What are the reasons leading to motivation of virtualization technology? Explain.

2. Attempt any two of the following:

12

- What is cloud computing? With the help of a diagram, explain the cloud computing architecture.
 - Explain the traffic eavesdropping and malicious intermediary techniques between cloud service consumer and a cloud service.
 - Explain buckets, objects and metadata with respect to Amazon S3.
 - Explain the compute services offered by Microsoft Azure.
-