



**WEST BENGAL STATE UNIVERSITY**  
B.Sc. Honours 5th Semester Examination, 2021-22

**CMSADSE03T-COMPUTER SCIENCE (DSE1/2)**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.  
Candidates should answer in their own words and adhere to the word limit as practicable.  
All symbols are of usual significance.*

**GROUP-A**

1. Answer any **four** questions from the following: 2×4 = 8
- (a) What are the different layers that define cloud architecture?
  - (b) What are the platforms used for large scale cloud computing?
  - (c) What are Hybrid clouds?
  - (d) What is the use of “EUCALYPTUS” in cloud computing?
  - (e) Give two examples of large cloud provider and database.
  - (f) State two advantages of cloud service.
  - (g) What are the different models for deployment in cloud computing?

**GROUP-B**

**Answer any four questions from the following**

8×4 = 32

- 2. What is cloud computing? Explain the cloud computing reference model. 2+6
- 3. What is virtualization? State the advantages and disadvantages of virtualization. 2+6
- 4. What is big-table? Explain it with a diagram. 2+6
- 5. Explain the following MapReduce like frameworks:  
Hive and Hadoop 4+4
- 6. What are the benefits of community cloud? Discuss the open challenges of cloud computing. 4+4
- 7. How security aspect is handled in cloud? What is mobile computing? 5+3

**N.B. :** *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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