

(Please write your Exam Roll No.)

Exam Roll No. ....

**END TERM EXAMINATION**

FIFTH SEMESTER (BCA) JANUARY-2024

Paper Code: BCA-305

Subject: Cloud Computing

Time: 3 Hours

Maximum Marks: 75

Note: Attempt five questions in all including Q.no.1 which is compulsory.  
Select one question from each unit.

- Q1 Answer the following questions in brief:- (2.5x10=25)
- Which are the different layers that define cloud architecture?
  - What are the characteristics of Cloud Computing?
  - What is the difference between parallel and distributed computing?
  - What are the disadvantages of virtualization?
  - What is the difference between distributed objects and RPC?
  - Describe the different categories of options available in a PaaS market.
  - Classify the various types of clouds. Give an example of the public cloud.
  - What fundamental advantages does cloud technology bring to scientific applications?
  - What is the innovative characteristic of cloud computing?
  - How is cloud development different from traditional software development?

**UNIT-I**

- Q2
- What pros and cons of Cloud computing in comparisons of Distributed and Grid computing?
  - What is the major advantage of Cloud Computing. Briefly Summarize the cloud computing Reference Model.
- Q3
- What are Web desktops? What is their relationship to cloud computing?
  - What is the major revolution introduced by Web 2.0? Give some examples of Web 2.0 applications

**UNIT-II**

- Q4
- Explain the Cloud Service Model
  - Describe the fundamental features of the economic and business model behind cloud computing.
- Q5
- Suppose a company A decides to set up a cloud to deliver Software as a Service to its clients through a remote location. Answer the following:
    - What are the security risks for which a customer needs to be careful about?
    - What kind of infrastructural set up will be required to set up a cloud?
    - What sort of billing model will such customers have?
  - Which are the basic components of an IaaS-based solution for cloud computing?

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**UNIT-III**

- Q6
- What is service-oriented computing and market-oriented cloud computing?
  - Discuss RPC and how it enables interprocess communication.
- Q7
- What are the most relevant technologies for distributed objects programming?
  - Describe the different levels of parallelism that can be obtained in a computing system.

**UNIT-IV**

- Q8
- Discuss the reference model of full virtualization.
  - What is hardware Virtualization? Write difference between para and full virtualization.
- Q9
- What is VMWare? Discuss its elements for virtualization.
  - Discuss classification or taxonomy of virtualization at different levels.

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P<sub>2/2</sub>