

**A-1148**

Total Pages : 3

Roll No. ....

**BCA-EC**

**Cloud Computing**

Examination, June 2025

Time : 2:00 Hrs.

Max. Marks : 70

**Note :-** This paper is of Seventy (70) marks divided into two (02) Sections 'A' and 'B'. Attempt the questions contained in these sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

**Section-A**

**Long Answer Type Questions**      2×19=38

**Note :-** Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

1. Define cloud computing. Explain its essential characteristics and service models.
2. Explain the layered architecture of cloud computing. Describe each layer in detail.
3. Describe the challenges and solutions for data backup and recovery in cloud systems.
4. What is resource allocation in cloud computing ? Explain different types of resource allocation strategies.
5. Discuss the advantages and disadvantages of using open source cloud platforms in enterprise settings.

### **Section–B**

#### **Short Answer Type Questions**      4×8=32

**Note** :- Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Differentiate between IaaS, PaaS, and SaaS with one example each.
2. Describe the difference between front-end and back-end components in cloud systems.

3. What is data replication ? How does it help in cloud data management ?
4. List and briefly describe any two cloud security threats.
5. Differentiate between OpenStack and AWS as cloud platforms.
6. What is fog computing ? How is it different from cloud computing ?
7. What is a virtual machine ? How is it used in cloud computing ?
8. Describe a simple case study of cloud usage in education or healthcare.

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