

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 7837

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Unique Paper Code : 6333490011

Name of the Paper : Cloud Computing Security (NEP UGCF)

Name of the Course : **B.Voc (Web Designing)**

Semester : VIII

Duration : 3 Hours

Maximum Marks : 90

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Question No. 1 is compulsory in **Section-A**.
3. Attempt any **four** questions from **Section-B**.
4. Parts of a question should be attempted together.

Section A

- Q1. a) Define cloud computing and state its key characteristics. (3)
- b) Differentiate between SaaS and PaaS. (3)
- c) List any four benefits of cloud computing (4)
- d) Explain public and private cloud models. (4)
- e) Define confidentiality and integrity in cloud security. (4)
- f) Describe secure development practices in cloud computing. (4)
- g) List any four security challenges in cloud computing. (4)
- h) Explain identity management and its importance in cloud environments (4)

Section B

- Q2. a) Describe the different cloud deployment models. Differentiate between public and private cloud with suitable examples. (8)
- b) Explain the architecture of cloud computing. Discuss the role of different components in the architecture. (7)
- Q3. a) Discuss the secure software development practices in cloud computing. Explain their significance in maintaining cloud security. (8)

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- b) Explain cloud security services and design principles with suitable examples. (7)
- Q4. a) Analyze the privacy and compliance risks in cloud computing. Suggest appropriate mitigation strategies. (8)
- b) Discuss various types of security policies in cloud environments and their implementation challenges. (7)
- Q5. a) Explain trusted cloud computing and secure execution environments. Highlight their importance in modern cloud systems. (8)
- b) Discuss access control issues in cloud computing and suggest methods to overcome them. (7)
- Q6. a) Explain autonomic security in cloud computing. Discuss how it helps in maintaining system resilience. (8)
- b) Describe the risks associated with cloud service providers and suggest methods to mitigate these risks. (7)
- Q7. Explain the Following terms :- (3×5)
- a. IaaS
 - b. Identity management in cloud computing
 - c. Secure cloud software requirement