

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 3611

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Unique Paper Code : 6332493601

Name of the Paper : Information Security and Cyber Laws(NEP UGCF)

Name of the Course : **B.VOC (WEB DESIGNING)**

Semester : VI

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

1.
 - a) What do you understand by risk and threat? (3)
 - b) Write a short note on vulnerability and exploit. (3)
 - c) Define confidentiality in information security. (3)
 - d) What is authentication? (3)
 - e) Explain the term cipher. (3)
 - f) What is public key cryptography? (3)
 - g) Define cyber forensics. (3)
 - h) What is risk analysis? (3)
 - i) Identify whether the following are internal or external threats: (3)
 - (i) Employee data theft
 - (ii) Hacker attack from internet
 - (iii) Unauthorized access by staff
 - j) List any three characteristics of a strong password. (3)

P.T.O.

Section B

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| 2. | a) | Explain the concept of risk analysis and its importance in information security. | 8 |
| | b) | Explain internal and external threats with suitable examples. | 7 |
| 3 | a) | Explain different types of cyber-attacks such as DoS, phishing, and spoofing. | 8 |
| | b) | Describe SQL injection and cross-site scripting attacks with examples. | 7 |
| 4 | a) | What is malware? Explain its types and impact on computer systems. | 8 |
| | b) | Explain social engineering and session hijacking attacks. | 7 |
| 5 | a) | Explain cyber laws related to identity theft, privacy violation, and cyber terrorism. | 10 |
| | b) | What are security issues in operating systems? | 5 |
| 6 | a) | What is intrusion detection system (IDS)? Explain its types and working. | 8 |
| | b) | Differentiate between digital signature, electronic signature, and digital certificate. | 7 |
| 7 | a) | What do you understand by risk assessment? What are the techniques to manage risk? | 8 |
| | b) | Explain important provisions of IT Act related to Sections 43, 65, and 66. | 7 |