Reg. No. ☐☐☐☐☐☐☐☐☐☐☐☐

BCACAC 382

**Choice Based Credit System VI Semester B.C.A. Degree
Examination, July/August 2023
(2021 – 22 Batch Onwards)
NETWORK SECURITY AND MANAGEMENT**

Time : 3 Hours

Max. Marks : 80

Note : Answer **any ten** questions from Part – **A** and **any one full** question from **each** Unit in Part – **B**.

PART – A

1. a) Differentiate fabricate and intercept. (10×2=20)

   b) What is the difference between encryption and decryption ?

   c) What are the qualities of good network ?

   d) Expand PPTP, L2FP, L2TP, IPSec.

   e) Define spyware and computer virus.

   f) What are the safeguards to malicious software ?

   g) What is the difference between HTTP and S-HTTP ?

   h) How to manage fault in network ?

   i) Define the terms object, agent and manager.

   j) What is risk management ?

   k) What are the legal threats to network ?

   l) List the factors that affects the incident classification.

PART – B

Unit – I

2. a) Describe the goals of infrastructure security.

   b) Explain the different classes of information policy.

   c) Write a note on design guidelines. (5+5+5)

P.T.O.

3. a) Explain different categories of data encryption methods.

   b) Define cryptanalysis. What are its purposes ?

   c) Write note on stream and block ciphers.   **(5+5+5)**

Unit – II

4. a) How smart cards help to security ? How companies using it ?

   b) What is VPN ? Explain types of VPNs.

   c) List and explain Database security requirements.   **(5+5+5)**

5. a) List and explain various system vulnerabilities.

   b) Discuss attack on internet protocol and internet services.

   c) Describe the types of firewall.   **(5+5+5)**

Unit – III

6. a) Explain the client server architecture for web.

   b) Explain the basic goals of network management.

   c) Write a note on SNMP commands.   **(5+5+5)**

7. a) What is security plan ? Explain the issues.

   b) Write a note on SNMPv2.

   c) Explain disaster recovery.   **(5+5+5)**

Unit – IV

8. a) Explain incident response process.

   b) Explain Information Technology Act, 2000.

   c) Describe various Email threats an organization faces.   **(5+5+5)**

9. a) Write a note on Indian penal code.

   b) Describe the schematic flow of internet banking.

   c) Write a note on Consumer Protection Act, 1986.   **(5+5+5)**

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