

Seat No. : _____

AJ-105

April-2025

Int., M.Sc. (CA & IT), Sem.-VIII

Information Security

Time : 2:30 Hours]

[Max. Marks : 70

1. (A) Attempt any **three** : 9
- (a) Explain in brief Components of Information Security.
 - (b) Briefly describe E-Security vs E-Thieves.
 - (c) Explain security model BIBA.
 - (d) Explain the CIA triad.
1. (B) Explain security services and protocols. 5

OR

- (B) Write a short note on Distributed System Security. 5
2. (A) Attempt any **three** : 9
- (a) How Physical Security Supports Information Security ?
 - (b) Briefly explain the audit section of a security policy.
 - (c) Briefly describe first level network security planning.
 - (d) Briefly explain design guidelines for essential security service Authorization.
2. (B) Discuss the infrastructure components with respect to various categories such as network, platform, physical and process. 5

OR

- (B) Why are policies, standards and guidelines important for any organization to implement security ? Explain in brief the various categories of security policies. 5

3. (A) Attempt any **three** : **9**
- (a) Briefly describe Information security governance.
 - (b) What is an Intrusion Detection and Prevention System (IDPS) ?
 - (c) Briefly explain The Information Security Blueprint.
 - (d) Briefly explain secure Static websites and Dynamic websites.
3. (B) Describe vendor specific security : Oracle, Microsoft **5**
- OR**
- (B) Explain Database Backup and Recovery. **5**
4. (A) Attempt any **three** : **9**
- (a) Explain Three Ways to Authenticate a User's Identity.
 - (b) Explain briefly types of Access Control Policies.
 - (c) Explain briefly how to Mitigate Network Vulnerabilities.
 - (d) Explain briefly attacks on Internet Protocols.
4. (B) What is Virtual Private Network ? Explain its types and advantage in detail **5**
5. (A) Attempt any **three** : **9**
- (a) What is Public key Infrastructure ? Explain.
 - (b) Explain Digital Signature in detail.
 - (c) What is Malware ? Explain its types.
 - (d) Explain IPSEC.
5. (B) Explain KERBEROS in detail. **5**
- OR**
- (B) Explain SSL in detail. **5**
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