BCA 601

B.C.A. (PART-III) EXAMINATION, 2024-25

(Six Semester)

Paper : I

BCA-601 Advance Network and Network Security

5447

Time : Three Hours]　　　　　　　[Maximum Marks : 70

Note: (i) Answer **Five** Questions in all.

(ii) Question No.-1 is **Compulsory**.

(iii) Answer **two** questions from Section **A** and **B** each.

(iv) All questions carry equal marks.

1. Answer all parts of the following:

    (a) Define internetworking.

    (b) What do you mean by virus attack ?

    (c) State the concept of Non-repudiation.

    (d) Why we need hash values of any massage?

Section-A

2. What is Cisco three layer hierarchical models ? Describe about its various layer wise architecture functionalities.

3. What is routing protocol ? Write steps in configuring router network interfaces and routing protocols.

4. What is digital signature ? How digital signature is created and verified for the digital document ?

5. Why we need IP Sec and TLP ? Describe the various IP Sec operational modes use cryptography.

Section-C

6. Differentiate between the following :

   (a)   Cut through switches and fragment free.

   (b)   Packet filtering firewall and proxy firewall.

7. (a)   Discuss about security considerations for Operating System.

   (b)   Mention any Cisco IOS Command with proper syntax and example.

8. (a)   Discuss about the essential steps for Risk Analysis.

   (b)   How we obtain public key using the public key infrastructure?

9. Write notes on any two of the following :

   (a)   Virtual Private Network (VPN)

   (b)   Intrusion Detection System (IDS)

   (c)   Application security

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