BCA 601

B.C.A. (PART-III) EXAMINATION, 2023-24

(Sixth Semester)

Paper : I

BCA-601 : Advance Networks and Network Security

Time : Three Hours] [Maximum Marks : 70

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

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

(iii) Answer remaining **four** questions, selecting **two** questions from each Section 'A' and 'B'.

(iv) All questions carry equal marks.

1. Answer all parts of the following :

   (a) What do you understand by internetworking ?

   (b) Where we use the Spanning Tree Protocol (STP) ?

   (c) Why we needs Public Key Infrastructure (PKI) ?

   (d) Define the web security.

Section-A

2. Describe the layered wise characteristics and function of CISCO three layer hierarchal model.

3. Why we use firewall ? Discuss the functionality of various type of firewall.

4. Write steps with description for configuration router terminal and its interfaces.

5. Mention and describe the various security service associated with Information security.

Section-B

6. Differentiate between the following :

   (a) IPSec protocol and TLS/SSL protocol.

   (b) Standard Access List and Extended Access List.

7. (a) What are various internal component of a CISCO Router ? Discuss their purpose and uses.

   (b) Why we use switch device ? Distinguish between store or forward switch and cut through switches.

8. (a) Discuss about LAN networks. Why we need virtual LAN ?

   (b) Explain Virus and discuss any Virus attack mechanism.

9. Write notes on any two of the following :

   (a) Internetworking TCP/IP Model

   (b) Cryptography

   (c) Network devices

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