

Roll No. \_\_\_\_\_

Code No. P (Skill)-073(G)

## **SIXTH SEMESTER EXAMINATION 2021-22**

**Class - B.A./B.Sc./B.Sc.(H.Sc.)/B.Com./B.Com.(Comp.)/BCA**

**Subject - Network Security & Cyber Technology**

Time : 2.30 Hrs.

Max. Marks : 80

Total No. of Printed Page : 05

Mini. Marks : 28

---

**Note:** Question paper is divided into three sections. Attempt question of all three section as per direction. Distribution of Marks is given in each section.

---

### **Section - 'A'**

**Attempt two questions from each unit.**

**Very Short answer question. (Word limit 30 words)**

**10x2=20**

### **UNIT - I**

1. What is masquerade ?
2. What is Threat ?
3. Define Data Integrity.

### **UNIT - II**

4. What is Symmetric Encryption ?
5. What is Block Cipher ?
6. What is message authentication Code ?

(2)

### **UNIT - III**

7. What is Authentication ?
8. What are advantages of Digital Certificate ?
9. Write any two difference between conventional and public-key-Encryption.

### **UNIT - IV**

10. Write key features of SET.
11. What is web security Threats ?
12. What is public key certificate ?

### **UNIT - V**

13. What is E-commerce ?
14. Write difference between Electronic signature and digital singature.
15. What is Computer Network ?

### **Section - 'B'**

**Attempt all questions.**

**Short answer question. (Word limit 60 words)**

**5x6=30**

### **UNIT - I**

16. Write short notes on Security Mechanism.

**OR**

(3)

Write a brief note on following :

- (i) RFC
- (ii) Passive Attack

## **UNIT - II**

17. What is Hash function ? Briefly Explain HMAC.

**OR**

Explain Avalanche effect.

## **UNIT - III**

18. What is S/MIME ? Why it is important ?

**OR**

What is key management ? What are two different uses of public-key cryptography related to key distribution ?

## **UNIT - IV**

19. What is Secure Socket Layer ? What is difference between SSL connection and SSL Session ?

**OR**

Briefly Explain IP Security Architecture.

(4)

## UNIT - V

20. Write a brief note on legal recognition of electronic record and electronic signatures.

**OR**

Write difference between Cyber contravention and Cyber offence.

## Section - 'C'

**Attempt any two questions.**

**Long answer question. (Word limit 120 words)**

**2x15=30**

## UNIT - I

21. Write a note on OSI Security Architecture.

## UNIT - II

22. What is Feistel Cipher ? Explain classical Feistel Network.

## UNIT - III

23. What are the Principal elements of Public Key Cryptosystem ? Discuss Security of RSA Algorithm.

(5)

## **UNIT - IV**

24. List and briefly define the principal categories of SET Participants.

## **UNIT - V**

25. What is the importance of Cyber Law ? Explain Section 65, 66, 66D, 66E of IT Act 2000.

--00--