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Paper Code : BCAC602 Cyber Security
UPID : 600107

Time Allotted : 3 Hours

Full Marks : 70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

1. Answer any ten of the following :

[1 x 10 = 10]

- (I) What is IDS?
- (II) What are the services provided by IPSec?
- (III) Distinguish between MAC and Hash function.
- (IV) Define integrity and non repudiation.
- (V) What are the punishment for cyber crime in India
- (VI) Cipher text means changed text (True/False)
- (VII) What is the difference between message authentication and one-way hash function.
- (VIII) Define Virus.
- (IX) Define Authentication.
- (X) Mention any three hash algorithms.
- (XI) What is Stream Cipher in Cryptography?
- (XII) Define five modes of operations of Block Cipher.

Group-B (Short Answer Type Question)

Answer any three of the following :

[5 x 3 = 15]

2. List all the information mentioned in a Digital ID. Also, mention the minimal requirement of Digital ID. [5]
3. Explain the working of Caesar Cipher. [5]
4. What are the steps in virus removal process? [5]
5. What is the difference between HTTP and HTTPS [5]
6. What is Distributed Denial of service attack? [5]

Group-C (Long Answer Type Question)

Answer any three of the following :

[15 x 3 = 45]

7. (a) List the basic comparison between Symmetric & Asymmetric Encryption. [5]
(b) State the difference between IDS & IPS. [5]
(c) How is Encryption different from Hashing? [5]
8. (a) What protocols fall under TCP/IP Layer of OSI Model? [5]
(b) What is SSL & TLS? [5]
(c) What is Email spoofing? [5]
9. (a) What are the different types of password attack? [8]
(b) What is the Digital Signature? [4]
(c) What is non repudiation? [3]
10. (a) What is proxy chain? [7]
(b) How to secure wireless networks Protocols [8]
11. (a) Why is Cyber Crime increasing at a huge extent day by day? [7]
(b) What are the main goals of Cyber Security? [8]

*** END OF PAPER ***