MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

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) _____ are programmes or procedures that enable hackers to maintain control of a computer system.

  (II) What is Cryptography?

  (III) How can identity theft be prevented?

  (IV) Define Authentication.

  (V) .... is a technique that is used to verify a message's integrity.

  (VI) What is cyber terrorism?

  (VII) Explain SSL Encryption.

  (VIII) What is a cybersecurity risk assessment?

  (IX) What is a BOT?

  (X) .... is NOT involved in the CIA Triad.

  (XI) What is data breach in cyber security?

  (XII) What is a block cipher?

Group-B (Short Answer Type Question)

Answer any three of the following :   [5 x 3 = 15]

2. What is stream cipher in cryptography?   [5]
3. What is cybersecurity, and why is it important?   [5]
4. Why do hackers use botnet?   [5]
5. Explain the difference between a Threat, Vulnerability, and Risk in cybersecurity.   [5]
6. What is proxy and why it is used?   [5]

Group-C (Long Answer Type Question)

Answer any three of the following :   [15 x 3 = 45]

7. (a) What is jammer in cybersecurity?   [7]

  (b) How do firewalls protect network security?   [8]

8. (a) Why is Biometric Better than Passwords?   [7]

  (b) Can Biometric Passports be Forged?   [8]

9. (a) What are the responsibilities of Data Link Layer?   [7]

  (b) What are the responsibilities of Application Layer?   [8]

10. (a) What is the difference between hacktivists and cyber terrorists?   [7]

  (b) How do hacktivists hack?   [8]

11. (a) What are the Advantages of Biometric Authentication?   [8]

  (b) Define the terms Encryption and Decryption.   [7]

*** END OF PAPER ***