WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Programme 6th Semester Examination, 2021

CMAGDSE03T-COMPUTER APPLICATION (DSE2)

INFORMATION SECURITY AND CYBER LAWS

Time Allotted: 2 Hours   Full Marks: 50

The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.

GROUP-A

1.   Answer any *five* questions from the following: 2×5 = 10

   (a) What is spoofing?

   (b) What is cyberspace?

   (c) What are the advantages of using a honey pot?

   (d) What is Internet Protocol service?

   (e) What is a VPN and what are its technologies?

   (f) What is hardware vulnerability?

   (g) Distinguish between threats and attacks.

   (h) What is session hijacking?

   (i) What is residual risk?

GROUP-B

Answer any *five* questions from the following   8×5 = 40

2. (a) What is Risk Analysis?   2

   (b) What are the types of Risk Analysis?   3

   (c) Explain the steps in the Risk Analysis process.   3

3. (a) What are the principles of conventional computer security?   3

   (b) Explain mono alphabetic cipher and poly alphabetic cipher with example. 3

   (c) How computer network can act as a threat?   2

4. (a) What are the types of spoofing?   3

   (b) How to protect against spoofing attacks?   3

   (c) What is Denial of Service Attack?   2

5. (a) Explain Three-Way Handshaking.   4

   (b) Discuss Criminology of Computer Crime.   4

6. (a) Define private key cryptography with an example.   4

   (b) Compare and contrast Symmetric key cryptography with Asymmetric key cryptography.   4

7. (a) Explain the different types of Cyber Attacks.   4

   (b) What is Software Vulnerability? Explain with example.   4

8.   Write short notes on: (any *two*)   4+4

   (a) Transposition cipher (Rail-Fence)

   (b) Malicious Software or Malware and its types

   (c) Various Techniques and Tools for Password Cracking.

9. (a) What is the difference between data protection in transit and data protection at rest?   4

   (b) What is Caesar Cipher? Explain with example.   4

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

——×——