



WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 6th Semester Examination, 2022

CMAADSE04T-COMPUTER APPLICATION (DSE3/4)
INFORMATION SECURITY AND CYBER LAW

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.*

Answer Question No. 1 and any *five* from the rest

1. Answer any ***five*** questions from the following: 2×5 = 10
 - (a) What is application security?
 - (b) What is email spoofing?
 - (c) Define phishing.
 - (d) What is software vulnerability?
 - (e) What is malware?
 - (f) What is VPN?
 - (g) Write down the difference between active and passive attack.
 - (h) What is a firewall?

2. (a) Explain public key cryptography with example. 4+4
(b) Briefly describe Caesar Cipher with an example.

3. (a) What is session sniffing? 3+5
(b) Explain Man in the middle attack with an example.

4. How can one create a secure cyber ecosystem? Explain. 8

5. (a) Give a short description of ISM framework. 4+4
(b) Discuss the various techniques and tools for password cracking.

6. (a) What is the difference between data protection in transit and data protection at rest? 4+4
(b) Explain 3-way Hand Shaking.

7. (a) Discuss the types and steps involved in the Risk Analysis Process. 4+4
(b) Explain Transposition Cipher and Poly Alphabetic Cipher with examples.
8. (a) Explain different types of threats. 4+4
(b) How to secure your computer from threats?
9. (a) What are the approaches of Information Security models? 4+4
(b) Explain the advantages and disadvantages of intellectual property rights.

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.*

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