



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

**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 the difference between spyware and adware?
  - (b) What is cyber bullying?
  - (c) What is software vulnerability?
  - (d) What is hacking?
  - (e) What is the difference between Copyright and Patent?
  - (f) What is IPS?
  - (g) What is email spoofing?
  - (h) What is Denial of Service Attack?

**GROUP-B**

- Answer any five questions from the following** 8×5 = 40
2. What is cyber security? How is it different from information security? 3+5
3. Describe security risk and analysis. 4+4
4. Explain the difference among virus, worm and trojan horse. 8
5. Write short notes on: different threats to information system, digital signature. 4+4
6. (a) What is packet filtering in firewall? 4+4  
(b) What is email-policy?

7. (a) What is the basic rule followed in public key encryption? 3+5  
(b) Explain in detail, the working principle of RSA algorithm.
8. (a) Discuss Malware and its types. 3  
(b) Write about the various techniques and tools for password cracking. 4  
(c) What is Caesar cipher? 1
9. (a) Explain 3way Handshaking. 4  
(b) Explain the types of Risk analysis and various steps involved in Risk analysis. 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.*

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