

2022

M.Sc.

4th Semester Examination

COMPUTER SCIENCE

PAPER—COS-403

ELECTIVE-III (INFORMATION SECURITY)

Full Marks : 50

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

1. Answer any four questions : 4×2

(a) What is information security?

(b) Define spoofing.

(Turn Over)

- (c) What do you mean by exploits?
- (d) Define policy.
- (e) Why is it important to study Feistel cipher?
- (f) What is firewall? How does it differ from gateway?

2. Answer any *four* questions : 4x4

- (a) List any eight cyber prevention techniques.
- (b) Explain mono alphabetic substitution cipher.
- (c) Who Are Hackers? What are the two Hacker levels?
- (d) Distinguish between asymmetric and symmetric encryption.
- (e) What are the features of a good encryption technique?
- (f) Describe any four types of malicious code.

3. Answer any *two* questions : 2×8

- (a) What is the difference between attack and vulnerability? List and explain any five attacks.
- (b) Explain CIA triad in information security.
- (c) Briefly explain the AES encryption technique.
- (d) Briefly explain the DES encryption technique.

[Internal assessment – 10]
