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4 SEM TDC GECS (CBCS) 4 (A/B)

2023

(May/June)

COMPUTER SCIENCE

(Generic Elective)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Paper : GE 4 A

(Information Security and Cyber Laws)

1. Answer the following: 1×5=5

- (a) What is cyber attack?**
- (b) What is the main use of firewall in a network?**
- (c) What is cyber stalking?**
- (d) What is digital crime?**
- (e) What is public key cryptography?**

2. Answer the following questions : $2 \times 7 = 14$

- (a) What are the needs for cyber security?
- (b) What are the various types of hackers?
- (c) What is the main object and scope of the IT Act?
- (d) What is data protection and privacy?
- (e) What is the difference between law and ethics?
- (f) What is vulnerability in cyber security? Name any two vulnerabilities.
- (g) What are the roles of cyber forensics?

3. Answer any four of the following questions : $4 \times 4 = 16$

- (a) What are the differences between a skilled hacker and an unskilled hacker?
- (b) What is an Internet Protocol Service? Explain its effectiveness and utilization in the Cyber Crime Investigation.
- (c) Define Cyber Crime and Cyber Law in the context of Indian Cyber Law.
- (d) Explain about copyright protection of content on the Internet.
- (e) Explain the IT Act, 2000 and its major amendments.
- (f) Explain the different tools for information security.

4. Write short notes on any three of the following : $6 \times 3 = 18$

- (a) Spam
- (b) Spoofing
- (c) Digital signature
- (d) Security features of Linux OS

Paper : GE 4 B

(Web and E-Commerce Technologies)

1. Answer the following questions: 1×7=7

- (a) Define Internet.
- (b) What is URL?
- (c) What is WORM?
- (d) Write one advantage of HTML.
- (e) Write the full form of HTTP.
- (f) Write the full form of B2C.
- (g) What is encryption?

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

- (a) Mention any two advantages of e-commerce.
- (b) What is cyber crime?
- (c) Briefly explain the B2B in e-commerce.
- (d) Define www.
- (e) Define computer virus.
- (f) Explain briefly about the meaning of authorization.
- (g) Define computer crime.

3. Answer any six from the following: 6×6=36

- (a) Explain briefly about different applications of e-commerce.
- (b) Explain about secret key cryptography.
- (c) Explain briefly about the limitations of EDI.
- (d) Explain briefly about the different Internet marketing techniques.
- (e) Explain briefly about the B2B and B2C in e-commerce.
- (f) Differentiate between traditional and e-commerce technologies.
- (g) Explain how digital signature works.

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