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

**2 0 2 2**

( June/July )

**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/Fill in the blank of the following :  
1×5=5

(a) Define computer network.

(b) Write two advantages of data security.

- (c) What is virus?
- (d) 'Section 66B' punishment for \_\_\_\_\_.
- (e) What is spoofing?

2. Answer the following questions : 2×7=14

- (a) What is firewall? Give an example.
- (b) Write two disadvantages of asymmetric cryptography.
- (c) What is network sniffing? Why is it used?
- (d) Explain cyber security.
- (e) Mention cyber security policies.
- (f) What are the terms defined by the IT Act, 2000?
- (g) Write two advantages of Intellectual Property Rights.

3. Answer any *four* of the following questions :

4×4=16

- (a) What is the difference between symmetric and asymmetric encryption?
- (b) Write briefly about any four cyber laws in India.
- (c) What is Caesar cipher? Explain with an example.
- (d) What is hacking? Briefly explain the different types of hacking.
- (e) Explain briefly about the different security features of Linux Operating System.

4. Write short notes on any *three* of the following :

6×3=18

- (a) Digital signature
- (b) Rail-fence cipher
- (c) Session hijacking
- (d) Threats

Paper : GE 4 B

**( Web and E-Commerce Technologies )**

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

- (a) What is e-commerce?
- (b) What is domain name?
- (c) What is cryptography?
- (d) What is a computer virus?
- (e) What is the full form of B2C in e-commerce?
- (f) Define intranet.
- (g) What is Web site traffic?

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

- (a) Mention any two activities of e-commerce.
- (b) Mention any two types of electronic payment system.
- (c) Briefly explain about B2B in e-commerce.
- (d) What is firewall?
- (e) What is digital signature?

- (f) What is secure electronic payment?
- (g) Mention any two Internet marketing strategies.

3. Answer any six from the following :  $6 \times 6 = 36$

- (a) Explain briefly about the functions of e-commerce.
- (b) Explain briefly about e-commerce and traditional commerce.
- (c) Mention briefly about the advantages and disadvantages of EDI.
- (d) Explain about the types of encryption.
- (e) Explain the different types of cyber crimes.
- (f) Explain the pros and cons of online shopping.
- (g) Differentiate between public key and private key.

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