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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.

(2)

(c) What is virus?

(d) 'Section 66B' punishment for _____.

(e) What is spoofing?

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

(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.

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(Continued)

(3)

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

$4 \times 4 = 16$

(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 :

$6 \times 3 = 18$

(a) Digital signature

(b) Rail-fence cipher

(c) Session hijacking

(d) Threats

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(Turn Over)

(4)

Paper : GE 4 B

(Web and E-Commerce Technologies)

1. Answer the following questions : $1 \times 7 = 7$
- (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 : $2 \times 5 = 10$
- (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?

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(Continued)

(5)

- (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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