2023/TDC(CBCS)/EVEN/SEM/
CSCDSE–602T/329

TDC (CBCS) Even Semester Exam., 2023

COMPUTER SCIENCE

(6th Semester)

Course No. : CSCDSE–602T

(Information Security and Cyber Laws)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks
for the questions

SECTION—A

Answer the following as directed (any _twenty_) :

$1 \times 20 = 20$

1. What do you mean by cyber criminology?

2. Is cracking legal?

(_Turn Over_)

(2)

3. What is data masking?

4. Define digital crime.

5. What do you mean by cryptanalysis?

6. Give an example of malicious software.

7. Commonly used session hijacking is _____ .

(Fill in the blank)

8. What is scanning attack?

9. Does India have cyber army?

10. A war, where one country uses viruses and hacking to cripple an enemy country's computer system is known as _____ .

(Fill in the blank)

11. Mention one technique to authenticate a valid user.

12. Define security assurance.

13. Why is data protection important in cyber security?

14. What is the goal of incident response?

15. Is virus a cyber threat?

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(Continued)

(3)

16. Write down the full form of AES in cryptography.

17. What do you mean by encryption?

18. Same key is used for both encryption and decryption are known as secret key.

(Write True or False)

19. Write down the features of cryptography.

20. Define exploit.

21. What is IT Act?

22. What does IPC Section 65 say?

23. Punishment of violation of privacy comes under IPC Section 66 E.

(Write True or False)

24. What are the ethics of cyber security?

25. Punishment for cyber terrorism comes under IPC Section _____ .

(Fill in the blank)

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(Turn Over)

(4)

SECTION—B

Answer any *five* of the following questions : 2×5=10

26. Why does cyber crime happen?

27. Write down the importance of cyber laws.

28. What are the information gathering tools in cyber security?

29. How does password cracking differ from password hacking?

30. What do you mean by digital forensic?

31. How can you protect your PC from external threat?

32. What are private key and public key in cryptography?

33. Give an example of substitution cipher.

34. How does digital signature differ from electronic signature?

35. Why is logging important in cyber security?

(5)

SECTION—C

Answer any *five* of the following questions : 8×5=40

36. Discuss different domains of cyber security.

37. What do you mean by computer threat? Explain different types of computer threat.

38. Define the following terms : 2+3+3=8
   (a) Cyber Warfare
   (b) Spoofing
   (c) Phishing

39. What is cyber attack? What type of tools used by the attacker for cyber attack?

40. What do you mean by risk analysis in cyber security?

41. What is security policy in cyber security? Discuss different components of security policy.

42. Discuss RSA algorithm in cryptography.

43. Write short notes on the following :   4+4=8

    (a) Rail-Fence Cipher

    (b) Caesar Cipher

44. How does an intrusion detection system work? Also write down the benefits of intrusion detection system.   5+3=8

45. What is cyber safety? Why is cyber safety important? Discuss some cyber safety techniques.   2+2+4=8

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