Register No.: .... Name: ....

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FIFTH SEMESTER INTEGRATED M.C.A DEGREE EXAMINATION (R), DECEMBER 2022
(2020 SCHEME)

Course Code: 20IMCAT307

Course Name: Fundamentals of Information Systems Security

Max. Marks: 60   **Duration: 3 Hours**

PART A
(Answer all questions. Each question carries 3 marks)

1. Define information security. List a few threats to information security.
2. What are the responsibilities of a data owner?
3. Which are the important functions of information security in an organization?
4. Distinguish the terms hacker, cracker and phreaker.
5. What does it mean by risk likelihood? What is its objective?
6. Write short note on mantrap.
7. List the different types of IDPS's. Explain each.
8. Differentiate WEP and WPA.
9. How biometric access control is implemented?
10. Write any three functions of CERT.

PART B
(Answer one full question from each module, each question carries 6 marks)

MODULE I

11. What is information? Which are the critical characteristics of information? Explain each.   (6)

OR

12. Using a block diagram, explain system development life cycle for implementing security in an organization.   (6)

MODULE II

13. Define intellectual property. Write the importance of intellectual property in information technology development.   (6)

OR

14. Enumerate on deliberate software attacks. Explain any four attacks.   (6)

MODULE III

15. Analyze the different strategies used for risk control to protect an information asset.   (6)

OR

16. Explain risk identification process with a suitable diagram.   (6)

MODULE IV

17. Write the various technical characteristics of a firewall.   (6)

OR

18. Prepare a report on diversified scanning and analysis tools available to secure a network.   (6)

MODULE V

19. Explain the various activities envisaged in information security project management.   (6)

OR

20. Elaborate on different credentials available for security professionals.   (6)

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