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

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FIFTH SEMESTER INTEGRATED M.C.A DEGREE EXAMINATION (S), FEBRUARY 2023
(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. What are the goals of information security governance?
2. List the categories of people who are responsible for controlling and using data in the organization.
3. What is a deliberate software attack? Write any two examples.
4. Explain information extortion. Give an example.
5. Comment on the major undertakings in risk management.
6. What is risk mitigation?
7. What is honeypot? Explain the advantages of honeypot in a network.
8. Explain application firewall and its disadvantage.
9. What are the methods of data interception?
10. What is work breakdown structure?

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

MODULE I

11. Explain the components of an information system.   (6)

OR

12. Summarize the phases in SecSDLC.   (6)

MODULE II

13. List and explain any six categories of threats to information security.   (6)

OR

14. Define the terms attack and vulnerability. Explain any four major types of attacks used against controlled systems.   (6)

MODULE III

15. Explain the components of risk identification. (6)

OR

16. Discuss the main risk control strategies that can be followed in any organization. (6)

MODULE IV

17. Comment on any three architectural implementations of firewalls. (6)

OR

18. Why Intrusion Detection and Prevention Systems (IDPS) is important? Prepare a brief report on the types of IDPS. (6)

MODULE V

19. Discuss the need for project management in implementing information security. (6)

OR

20. Explain any three technical aspects of information security implementation. (6)

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