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

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

SECOND SEMESTER M.C.A DEGREE EXAMINATION (S), SEPT 2022

(2021 SCHEME)

Course Code: **21CA202**

Course Name: **Web and Database Security**

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

Special instructions – Calculator is allowed to use

PART A

(Answer all questions. Each question carries 3 marks)

1. Mention the rules of playfair cipher with an example.
2. Write a note on web security.
3. Which are the different types of backups? Explain each.
4. What is the use of browser cache?
5. Explain access control.
6. What is XML schema?
7. Identify the database auditing components as defined by NIST.
8. Write a short note on database watermarking.
9. State the advantages of location-based services.
10. List the three important resources required for authorization in a mobile environment.

PART B

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

MODULE I

11. Develop the algorithm to implement RSA public key cryptography.   (6)

OR

12. Assess the strengths and weaknesses of different digital identification methods.   (6)

MODULE II

13. Discuss the various types of log files.   (6)

OR

14. Describe the security measures to be taken for a good password as an authentication mechanism.   (6)

MODULE III

15. Which are the classical access control models available? Explain each.   (6)

<div align="center">**OR**</div>

16.   Explain the concept behind trust management.   (6)

<div align="center">**MODULE IV**</div>

17.   Analyze the various requirements to implement security re-engineering for database systems.   (6)

<div align="center">**OR**</div>

18.   Comment on various trustworthy record retention strategies.   (6)

<div align="center">**MODULE V**</div>

19.   With the help of a block diagram, describe system architecture for a mobile application environment.   (6)

<div align="center">**OR**</div>

20.   Discuss the importance of unified index for authorizations.   (6)

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