

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF ENGINEERING
MID TERM EXAMINATION - OCT 2023**

Semester : Semester VII - 2020

Course Code : CSE2041

Course Name : Sem VII - CSE2041 - Computer Security

Program : B. TECH

Date : 31-OCT-2023

Time : 9:30AM - 11:00AM

Max Marks : 60

Weightage : 30%

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

PART A

ANSWER ALL THE QUESTIONS

(5 X 2 = 10M)

1. Explain computer Security concepts. (CO1) [Knowledge]
2. With a diagram explain Security Concepts and Relationships (CO1) [Knowledge]
3. List the Challenges of Computer Security. (CO1) [Knowledge]
4. What are the Applications for Public-Key Cryptosystems? (CO2) [Knowledge]
5. With diagram explain Message Authentication Using a One-Way Hash Function. (CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(3 X 10 = 30M)

6. With a diagram explain the Scope of Computer Security (CO1) [Comprehension]
7. Draw the diagram of Message Authentication Using a Message Authentication Code and explain the working of it. (CO2) [Comprehension]
8. List Asymmetric Encryption Algorithms and explain any two of them. (CO2) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION

(1 X 20 = 20M)

9. Model the working of Public-Key Cryptography with a diagram.

Organize Defence in Depth and Attack Surface with a digram

(CO2,CO1) [Application]