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**PRESIDENCY UNIVERSITY
BENGALURU**

SET A

**SCHOOL OF ENGINEERING
END TERM EXAMINATION - JAN 2024**

Semester : Semester V - 2021

Course Code : CSE2060

Course Name : Information Security and Management

Program : B.Tech.

Date : 08-JAN-2024

Time : 9:30AM - 12:30 PM

Max Marks : 100

Weightage : 50%

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.
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PART A

ANSWER ALL THE QUESTIONS

5 X 2M = 10M

1. Define the key terms and critical concepts of information security.
(CO1) [Knowledge]
2. Compare between passive and active attacks.
(CO2) [Knowledge]
3. Describe the risk management.
(CO3) [Knowledge]
4. List Communities of Interest in Managing Risk in an organization.
(CO3) [Knowledge]
5. Describe the Next Generation Firewall (NextGen).
(CO4) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

5 X 10M = 50M

6. Discuss the CNSS security Model.
(CO1) [Comprehension]
7. Describe the threat consequences.
(CO2) [Comprehension]

8. A. Compare between Qualitative and Quantitative risk analysis.
B. You are risk assessing a company and have reason to believe they have underestimated how much a risk is costing them per year. The risk occurs at least once every five years and, every time it happens, it costs the company \$50,000. Calculate the Annual Loss Expectancy of the risk.
(CO3) [Comprehension]
9. Explain various Firewall Architectures.
(CO3) [Comprehension]
10. Describe the RADIUS. What advantage does it have over TACACS?
(CO4) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

2 X 20M = 40M

11. A. Explain the functioning of the Information Security Project Team.
B. Discuss the Software Attacks.
(CO2,CO1) [Application]
12. A. Explain the Risk Management Process, in detail.
B. Discuss the Kerberos, in detail.
(CO4,CO3) [Application]