KUMARAGURU
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Register Number:………….….

MCA DEGREE EXAMINATIONS: NOV/DEC 2023

(Regulation 2020)

Third Semester

MASTER OF COMPUTER APPLICATIONS

P20CAE0001: Information Security

COURSE OUTCOMES

CO1: Understand the basic concepts of information security, its model and development life cycle.

CO2: Assess the need for information security and its legal, ethical and its professional issues.

CO3: Identify the information security needs.

CO4: Enable planning of security solutions.

CO5: Implement and practice security policies.

Time: Three Hours   **Maximum Marks: 100**

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

1.	Interpret the importance of information security.	CO1	[K$_2$]
2.	Classify the steps to effectively Balance Data Access and Security.	CO1	[K$_2$]
3.	Classify the needs of Information Security.	CO2	[K$_4$]
4.	List out the managing risks in Information Security.	CO2	[K$_2$]
5.	Interpret the security architecture blueprint.	CO3	[K$_2$]
6.	List the different types of security education.	CO3	[K$_2$]
7.	Outline the advantages of using Firewalls.	CO4	[K$_2$]
8.	Inspect the parts of process of scanning.	CO4	[K$_2$]
9.	Relate the role of IT security professional.	CO5	[K$_2$]
10.	Categorize the principle of digital forensics.	CO5	[K$_4$]

PART B (6 x 5 = 30 Marks)

11.	Classify the NSTISSC Security Model with suitable diagram.	CO1	[K$_4$]
12.	Categorize the various components of Information System with suitable figure.	CO1	[K$_4$]
13.	Examine the Legal, Ethical and Professional Issues in Information Security.	CO2	[K$_4$]

14. Classify the Security architecture design for Microsoft Azure.	CO3	[K4]

15. Classify the various functions of Intrusion Detection and Prevention Systems (IDPS) and How IDPS works with suitable figure.	CO4	[K4]

16. Differentiate between Data Privacy and Data Security of Personal Data.	CO5	[K4]

Answer any FIVE Questions

PART C (5 x 10 = 50 Marks)

17. Analyze the phases of Security System Development Life Cycle with advantages and disadvantages.	CO1	[K4]

18. Distinguish between threats and attacks. Analyze the various types of threats and attacks.	CO2	[K4]

19. Justify the reason why Information Security Policies, Standards and Procedures should be top Priority in Industry.	CO3	[K3]

20. Differentiate between Firewall and Anti-virus. How does a firewall work? List the Functions and types of Firewall.	CO4	[K4]

21. Determine how employment policies and practices are used to enhance information security in organization (Assume any one organization).	CO5	[K4]

22. Discusses about how to maintain your IT security system once they are installed.	CO5	[K4]

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