

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA INTEGRATED– SEMESTER VII - EXAMINATION –SUMMER-2021**

**Subject Code: 4470621**

**Date: 10-08-2021**

**Subject Name: Information Security**

**Time: 10:30 AM to 01:00 PM**

**Total Marks: 70**

**Instructions:**

- 1. Attempt all questions.**
- 2. Make Suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

**Q. 1 (a)** Define the following terms: **07**

- (i) Integrity
- (ii) Interception
- (iii) Denial of service
- (iv) Trapdoor
- (v) Anonymity
- (vi) Hactivism
- (vii) Identity theft

**Q. 1 (b)** (i) Explain vulnerabilities of computer systems. **04**  
(ii) Describe methods of Defense from computer crime. **03**

**Q. 2 (a)** Explain unexpected behaviour for security, with reasons for distressing situation. **07**

(b) State and explain the categories of flaws. **07**

**OR**

(b) Write note on Military security policy. **07**

**Q. 3 (a)** (i) State the advantages of using databases. **04**  
(ii) Define: Records, Schema, Attributes. **03**

(b) Describe the security requirements of database systems and explain any three of them in detail. **07**

**OR**

**Q. 3 (a)** Explain in details: **07**

- (i) Threats in transit.
- (ii) Website vulnerabilities.

(b)	(i) Enlist the factors making a network vulnerable.	04
	(ii) Explain the concept of Port Scan and Social Engineering.	03
<b>Q. 4 (a)</b>	Enlist the contents of security plan and describe Business Continuity Plan.	07
(b)	Describe the characteristics of a good policy in detail.	07
<b>OR</b>		
<b>Q. 4 (a)</b>	Write a note on:	07
	(i) Security Planning team	
	(ii) Incidence Response team	
(b)	Explain the basic steps of Risk analysis.	07
<b>Q. 5 (a)</b>	Write a note on US Privacy laws.	07
(b)	(i) Explain the procedure for registering a Patent.	05
	(ii) List the characteristics of Trusted Operating System.	02
<b>OR</b>		
<b>Q. 5 (a)</b>		07
	(i) Describe the Copyrights for Digital Objects.	
	(ii) Explain the characteristics of Trade Secrets.	
(b)	(i) Explain the computer related Privacy problems.	05
	(ii) List the concepts used in TakeGrant systems.	02

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