

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE(MINOR) - SEMESTER-VI EXAMINATION – SUMMER 2023**

**Subject Code:116AH02**

**Date:11-08-2023**

**Subject Name:Security Assessment and Risk Analysis**

**Time:02:30 PM TO 05:00 PM**

**Total Marks:70**

**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

	<b>Marks</b>
<b>Q.1</b> (a) What is infoSec?	<b>03</b>
(b) Differentiate information security and cyber security?	<b>04</b>
(c) Explain principles of information security in detail.	<b>07</b>
<b>Q.2</b> (a) List out some uses of information security.	<b>03</b>
(b) How do the vulnerabilities manifest in infoSec?	<b>04</b>
(c) Explain following issues of information security.	<b>07</b>
1.Cyber threats	
2.Human error.	
3.Insider threats	
4.Legacy system	
5.Complexity	
<b>OR</b>	
(c) What are the counter measures can be taken for information security and explain in detail.	<b>07</b>
<b>Q.3</b> (a) What is threats?	<b>03</b>
(b) What you do if an unauthorized person gains access of secured information?	<b>04</b>
(c) List major categories of threats and explain in detail.	<b>07</b>
<b>OR</b>	
<b>Q.3</b> (a) What is HOIS?	<b>03</b>
(b) Differentiate risk management and risk assessment.	<b>04</b>
(c) Explain disaster Recovery in detail.	<b>07</b>
<b>Q.4</b> (a) What are the consequences we face in risk management?	<b>03</b>
(b) Write short note on contingency plan components	<b>04</b>
(c) What are the development of plans for recovery actions after a disruptive event?	<b>07</b>
<b>OR</b>	
<b>Q.4</b> (a) What is security monitoring and auditing?	<b>03</b>
(b) Explain security audit and its types.	<b>04</b>
(c) Write the importance of security training and awareness.	<b>07</b>

- Q.5** (a) What are the impact on effectiveness of conducting security programs? **03**  
(b) What is OPSEC and why it is important in information security? **04**  
(c) Explain five step process of OPSEC. **07**
- OR**
- Q.5** (a) What is network encryption? **03**  
(b) How do you conduct security reviews? **04**  
(c) Explain golden rules of OPSEC in detail **07**

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