



Paper id: 250952

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Subject Code: HTCS601

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**BTECH-HON
(SEM VI) THEORY EXAMINATION 2024-25
SECURITY ASSESSMENT AND RISK ANALYSIS**

TIME: 3 HRS**M.MARKS: 100****Note:** Attempt all Sections. In case of any missing data; choose suitably.**SECTION A****1. Attempt all questions in brief.****2 x 10 = 20**

Q No.	Question	CO	Level
a.	Define the three critical characteristics of information security.	CO1	K1
b.	Differentiate between threats and vulnerabilities.	CO1	K2
c.	What is meant by 'need-to-know' principle in personnel security?	CO4	K1
d.	List three common types of security countermeasures.	CO1	K1
e.	Explain the purpose of OPSEC surveys.	CO5	K2
f.	What are the key components of contingency planning?	CO2	K1
g.	How does encryption contribute to INFOSEC?	CO5	K2
h.	State two objectives of security awareness training.	CO4	K1
i.	What is the importance of audit trails in monitoring?	CO4	K2
j.	Define risk assessment in security context.	CO1	K1

SECTION B**2. Attempt any three of the following:****10 x 3 = 30**

Q No.	Question	CO	Level
a.	Explain the information states (transmission, storage, processing) with appropriate security countermeasures for each.	CO1	K3
b.	Describe the cost-benefit analysis process in risk management with an example.	CO1	K4
c.	Explain the escalation process from security incident to disaster with examples.	CO2	K3
d.	Discuss the key considerations in developing backup requirements for contingency planning.	CO2	K4
e.	Explain how position sensitivity affects personnel security procedures.	CO4	K3

SECTION C**3. Attempt any one part of the following:****10 x 1 = 10**

Q No.	Question	CO	Level
a.	Analyze the relationship between threats, vulnerabilities and consequences in risk assessment. Support with examples.	CO1	K4
b.	Develop a step-by-step procedure for conducting security inspections in an organization.	CO1	K5

4. Attempt any one part of the following:**10 x 1 = 10**

Q No.	Question	CO	Level
a.	Design a comprehensive security training program covering key awareness aspects for employees.	CO4	K5
b.	Evaluate the effectiveness of different types of accountability controls in security auditing.	CO4	K6



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5. Attempt any one part of the following: 10 x 1 = 10

Q No.	Question	CO	Level
a.	Create a disaster recovery plan template for a mid-sized IT company.	CO4	K6
b.	Explain the process of investigating security breaches with proper documentation procedures.	CO4	K4

6. Attempt any one part of the following: 10 x 1 = 10

Q No.	Question	CO	Level
a.	Compare point-to-point and network encryption methods with their respective advantages.	CO5	K5
b.	Analyze a case study of vulnerability assessment and suggest mitigation strategies.	CO5	K6

7. Attempt any one part of the following: 10 x 1 = 10

Q No.	Question	CO	Level
a.	Develop a checklist for conducting OPSEC planning in a government organization.	CO5	K5
b.	Critically examine the privacy concerns associated with extensive logging and monitoring.	CO4	K6

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