



Paper id: 252654

Printed Page: 1 of 2  
Subject Code: KCAA01

Roll No:

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**MCA**  
**(SEM II) THEORY EXAMINATION 2024-25**  
**CYBER SECURITY\***

**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 CIA triad in the context of information security.	1	K2
b.	What is the role of firewalls in securing networks?	2	K2
c.	Describe any one method to protect database security.	2	K3
d.	Explain the term 'Denial of Service' (DoS) with one example.	2	K3
e.	What are the types of E-Commerce?	3	K2
f.	Define Digital Signature and its use.	3	K2
g.	Explain the purpose of security policies in an organization.	4	K4
h.	Differentiate between WWW policies and Email security policies.	4	K4
i.	What are the key provisions of the IT Act 2000?	5	K2
j.	What is software piracy? How is it addressed legally?	5	K3

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

Q No.	Question	CO	Level
a.	Discuss various types of threats to Information Systems and methods for risk analysis.	1	K2
b.	Explain the working of Intrusion Detection Systems with examples.	2	K3
c.	Describe the concept of cryptography and its application in secure electronic transactions.	3	K2
d.	Analyze a case study on corporate security highlighting key security policies implemented.	4	K4
e.	Evaluate the impact of copyright law and IPR in the context of software development and piracy control.	5	K3

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

Q No.	Question	CO	Level
a.	Explain the concept of Information Assurance and its components.	1	K2
b.	Describe different types of Information Systems with suitable examples.	1	K2



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**4. Attempt any one part of the following:**

**10 x 1 = 10**

Q No.	Question	CO	Level
a.	Describe Email viruses and their effect on organizational security.	2	K3
b.	Apply the concept of VPNs to secure remote working environments.	2	K3

**5. Attempt any one part of the following:**

**10 x 1 = 10**

Q No.	Question	CO	Level
a.	Discuss the different forms of electronic payment systems used in e-commerce.	3	K2
b.	How does application development security ensure robust software design?	3	K3

**6. Attempt any one part of the following:**

**10 x 1 = 10**

Q No.	Question	CO	Level
a.	How can organizations develop and publish effective cyber security policies?	4	K4
b.	Evaluate the impact of corporate policies on employee data protection.	4	K4

**7. Attempt any one part of the following:**

**10 x 1 = 10**

Q No.	Question	CO	Level
a.	Highlight the major features of the IT Act 2000 with examples.	5	K2
b.	Discuss the role of intellectual property law in protecting digital content.	5	K3