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Total No. of Questions : 5]

SEAT No. :

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F.Y.M.C.A. (Management)

ICE-513-MJ : INTRODUCTION TO CYBER SECURITY

(2025 Pattern) (Semester - I)

Time : 2½ Hours] *[Max. Marks : 45*

Instructions to the candidates:

1) *All Questions are compulsory.*
2) *Question number should be clearly mentioned.*
3) *Draw neat labeled diagram wherever necessary.*

Q1) a) Explain the history and evolution of cyber crime. **[5]**

b) Describe the different types of cybercrime with suitable examples. **[4]**

OR

c) Explain cyber security fundamentals and computer security concepts. **[5]**

d) Discuss threats, harm and vulnerabilities in cyber systems. **[4]**

Q2) a) A company employee clicked on a fake email link and confidential company data was leaked through a phishing attack. Analyze the attack process and suggest preventive measures using cyber hygiene practices. **[9]**

OR

b) An organization faced a DDoS attack through a botnet network which caused website downtime. Explain the role of botnets, vulnerabilities exploited, and methods to secure the system. **[9]**

Q3) a) A customer's bank account was accessed illegally after receiving a phishing email requesting OTP details. Explain the type of identity theft and financial fraud involved along with preventive measures. **[9]**

OR

b) A hospital database was breached and medical records of patients were stolen. Analyze the cybercrime, identify the techniques used, and explain the impact of medical identity theft. **[9]**

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Q4) a) Explain the objectives and important provisions of IT Act 2000. **[5]**

b) Discuss ethical considerations in cyber security. **[4]**

OR

c) Explain intellectual property rights (IPR) in the digital environment. **[5]**

d) Discuss legal provisions against hacking and cyber fraud in India. **[4]**

Q5) a) Enlist and explain Security Auditing Tools. **[5]**

b) Describe ISO 27001 Standard. **[4]**

OR

c) What is PDCA Model? Explain. **[5]**

d) What is the role of Ethical Hacking in cyber security? **[4]**



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