BE/sem VII/comp/e-scheme/June-25/13.06.26

Time: 3 Hours **Total Marks: 80**

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N.B.: (1) Question No.1 is compulsory.
(2) Attempt any three questions from the remaining five questions.
(3) Make suitable assumptions wherever necessary but justify your assumptions.

Q1	Attempt any FOUR	20
a	A user's private photos are shared online without consent. Discuss human rights issues on the internet with reference to this situation.	
b	A student loses money after sharing details through a suspicious online link. Explain the terms cyberspace and cybercrime with reference to this case.	
c	A user logs into email at a cyber café and later faces unauthorized access. Explain keylogger and its types based on this scenario.	
d	One user hides a message in an image while another encrypts a message. Differentiate between steganography and cryptography using this example.	
e	Students frequently use social media and public Wi-Fi networks. Discuss survival mantras for netizens to stay safe online.	
Q.2		
a	Explain most important preventive steps you can take to protect yourself online.	10
b	An organization experiences a data breach due to weak network protection and unsecured Wi-Fi access. Analyze the scenario and explain the role of firewalls and Wi-Fi security measures that could have prevented the attack.	10
Q.3		
a	Describe proliferation of mobile and wireless devices and its implications on organizations in terms of cybersecurity.	10
b	How does social engineering attacks work? Explain.	10
Q.4		
a	How do cybercriminal plans phishing and identity theft? Explain.	10
b	Write the difference between copy right and patent.	10
Q.5		
a	Explain construction of e-contract.	10
b	What is e-commerce? Discuss types of e-commerce.	10
Q.6	Write short notes on any FOUR	20
a	A company's digital content is copied and misused online without permission. Explain IPR issues in cyberspace.	
b	A person receives repeated threatening messages and is constantly monitored online. Explain cyber stalking.	
c	A user installs a free software that secretly gives attackers access to their system. Explain Trojan Horse.	
d	A system is attacked using a vulnerability unknown to developers. Explain zero-day attack.	
e	A hospital's patient data is leaked due to poor data protection practices. Explain HIPAA and its importance in protecting health information.	

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