Paper id: 251003

Roll No: | | | | | | | | | | | | | |

BTECH
(SEM VI) THEORY EXAMINATION 2024-25
CYBER FORENSIC ANALYTICS

TIME: 3 HRS **M.MARKS: 70**

Note: Attempt all Sections. In case of any missing data; choose suitably.

SECTION A

1. Attempt *all* questions in brief. 02 x 7 = 14

Q no.	Question	CO	Level
a.	Define cybercrime and mention any two common types.	1	K2
b.	What is the difference between cyber stalking and cyber extortion?	1	K1
c.	Explain disk imaging in the context of cyber forensics.	2	K2
d.	How are audit logs used in cyber investigation?	3	K3
e.	Differentiate between warranted and warrantless searches.	3	K4
f.	What are the pre-search activities in digital evidence management?	4	K3
g.	List any three key components of Indian cyber law.	5	K2

SECTION B

2. Attempt any *three* of the following: 07 x 3 = 21

a.	Describe the various types of cybercrime and provide real-world examples.	1	K2
b.	Discuss how Wire shark and pcap analysis are used in forensic investigations.	2	K2
c.	Illustrate with examples how cybercriminal profiling is done.	3	K3
d.	Explain the process of evidence collection and its importance in legal proceedings.	4	K4
e.	What are the legal frameworks available in India to combat cybercrime?	5	K2

SECTION C

3. Attempt any *one* part of the following: 07 x 1 = 07

a.	Explain different types of cybercrimes such as cyber terrorism and cyber warfare.	1	K1
b.	What are mobile payments and how are they exploited in cybercrime?	1	K2

4. Attempt any *one* part of the following: 07 x 1 = 07

a.	What is steganography? How is it detected in forensic analysis?	2	K1
b.	Describe the use of backdoors, Trojans, and botnets in cyber-attacks.	2	K2

5. Attempt any *one* part of the following: 07 x 1 = 07

a.	Discuss various techniques used for network-based cyber investigations.	3	K3
b.	Compare undercover techniques with direct investigative methods in cybercrime cases.	3	K4

6. Attempt any *one* part of the following: 07 x 1 = 07

a.	Explain the on-scene activities carried out during digital evidence collection.	4	K3
b.	Describe the role of contextual information in digital evidence analysis.	4	K4

7. Attempt any *one* part of the following: 07 x 1 = 07

a.	Write a short note on the IT Act 2000 and its relevance to cyber forensics.	5	K1
b.	Explain the importance of cyber laws in protecting digital transactions and privacy.	5	K2