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B.Tech. VI - Sem. (Main/Back) Examination, April/May - 2026 Computer Sc. & Engg. (Cyber Security) 6CCS5-11 Cyber Forensic		

Time : 3 Hours

Maximum Marks : 70

Instructions to Candidates:

*Attempt **all Ten** questions from **Part A**. Attempt any **Five** questions out of **Seven** questions from **Part B** and **Three** questions out of **Five** questions from **Part C**.*

Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205).

PART - A

(Answer should be given up to 25 words only)

All questions are compulsory.

(10×2=20)

1. Define information security investigations.
2. Mention two scientific methods used in cyber forensics.
3. What is the primary objective of cyber forensic investigations?
4. Define "spyware" in the context of cyber forensics.
5. What is the function of a firewall in cyber security?
6. What is biometric security systems?
7. What is the role of hacking in cyber forensic investigations?
8. Define the term "volatile evidence".
9. What is the router forensic investigation?
10. State the name of Military computer forensic Technology, any one

PART - B

(Analytical/Problem solving questions)

Attempt any Five questions.

(5×4=20)

1. Describe different scientific methods used in cyber forensics investigations.
2. Differentiate the Analog and Digital evidence.
- ✓ 3. How does an Intrusion Detection system help in cyber security investigations?
- ✓ 4. What are the wireless network security systems? Explain their importance.
- ✓ 5. What is ethical hacking? Explain its role in digital forensic investigations.
- ✓ 6. What are the web Forensic investigations? How are the web attacks analyzed?
7. Discuss the challenges in handling and preserving digital evidence in cyber forensic investigations.

PART - C

(Descriptive/Analytical/Problem Solving/Design questions)

Attempt any Three questions.

(3×10=30)

1. Describe different types of spyware and their impact on digital security.
 - ✓ 2. Explain the satellite encryption security systems.
 - ✓ 3. Explain the process of digital evidence identification, collection, and preservation.
 4. Explain various cyber forensics tools used to investigate cyber crime.
 - ✓ 5. What are the different type of malware? How do they affect computer systems and how can be detected?
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