

SPPU-BE-COMP-CONTENT – KSKA Git

Total No. of Questions : 8]

SEAT No. :

PB2248

[6263]-86

[Total No. of Pages : 2

B.E. (Computer Engineering)

**CYBER SECURITY AND DIGITAL FORENSICS
(2019 Pattern) (Semester - VII) (410244 C) (Elective - III)**

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume suitable data if necessary.

Q1) a) What are the typical services offered by computer forensics professionals? (explain any two) **[9]**

b) What specific technologies are utilized in the field of business computer forensics? (Describe any two) **[9]**

OR

Q2) a) How does computer forensics technology vary cross different sectors like military law enforcement & business? **[9]**

b) What are the key components of a data recovery solutions in computer forensics? Explain in detail. **[9]**

Q3) a) What are various options available for collecting digital evidences? Explain in detail? **[8]**

b) Explain the essential steps in processing digital evidence from the crime scene? **[9]**

OR

Q4) a) What is the volatile evidence in the context of computer forensics, and why is it important to collect in quickly? **[8]**

b) What are the hypical steps involve in the collection of digital evidence?[9]

Q5) a) What are some common data hiding techniques? Explain any one in detail? **[8]**

b) What is the honey net project, and how does it contribute to network forensics? **[9]**

OR

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- Q6)** a) What precautions should investigators take to prevent data alteration or loss during the seizure process? Explain any one in detail? [8]
b) What are the challenges and best practices associated with performing remote acquisitions? [9]

- Q7)** a) What are the common examples of email crime & violations that may necessitate investigation? Explain any one in detail? [9]
b) Explain any software tool used in computer forensics investigation and its respective purpose? [9]

OR

- Q8)** Write short note (any two) [18]
a) Computer forensics hardware tools
b) Validating & testing forensics software
c) e-mail investigation

