

# SPPU-BE-COMP-CONTENT – KSKA Git

Total No. of Questions : 8]

SEAT No. :

**PD4581**

[Total No. of Pages : 2

**[6404]-86**

**B.E. (Computer Engineering)**

**CYBER SECURITY AND DIGITAL FORENSICS**

**(2019 Pattern) (Semester - VII) (Elective - III) (410244 C)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Answers 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 indicate full marks.*
- 4) *Assume suitable data, if necessary.*

**Q1) a)** What is primary purpose of computer forensics & how does computer forensic differ from other forensic disciplines? **[9]**

**b)** How do law enforcement computer forensic technologies aid in criminal investigation? **[9]**

OR

**Q2) a)** What are some examples of technologies used in computer forensic investigation? Explain any two. **[9]**

**b)** What strategies can individuals & organizations use to ensure effective data backup for recovery purposes? Describe any two in detail. **[9]**

**Q3) a)** What are some common obstacles faced when collecting digital evidence. Explain in detail. **[8]**

**b)** What method & techniques are commonly used to verify & authenticate computer images? Explain any two? **[9]**

OR

**Q4) a)** Describe the general procedure for collecting and archiving digital evidence in computer forensics? **[9]**

**b)** Explain duplication & Preservation of digital evidence? **[8]**

**P.T.O.**

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**Q5) a)** What steps should be taken to secure computer incident or crime scene before beginning the search for digital evidence? [8]

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

OR

**Q6) a)** Why is obtaining a digital hash important while storing digital evidence, and how is it generated? Explain in detail. [9]

b) What are some common network tool used in network forensics, Explain any one detail? [8]

**Q7) a)** What factor should be considered when evaluating the computer forensics tool need for an investigation? Explain any two in detail? [9]

b) What is role of hardware tool in computer forensics, and how do they differ from software tools? [9]

OR

**Q8)** Write short note on (any 2) [18]

a) Validating & testing forensics software

b) e-mail investigation

c) Computer forensics software tool

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