(b) What are the different branches of Digital Forensics ? Explain about them.　　(CO5)

(c) What do you mean by Virtual Machine Forensics ? Explain the steps involved in Virtual Machine Forensics investigation.

(CO5)

100

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TCS–731

B. TECH. (CSE) (SEVENTH SEMESTER) END SEMESTER EXAMINATION, Dec., 2023

COMPUTER FORENSICS

Time : Three Hours

Maximum Marks : 100

Note : (i) All questions are compulsory.

(ii) Answer any *two* sub-questions among (a), (b) and (c) in each main question.

(iii) Total marks in each main question are **twenty.**

(iv) Each sub-question carries 10 marks.

1. (a) Explain about Investigation Tools, Evidence Collection and Preservation of the evidence as carried out in Cyber Forensic Investigation.　　(CO1)

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(b) Explain about the Digital Evidence Collection related to Cyber Forensic Investigation. (CO1)

(c) How will you investigate a crime which has happened using Email. State the Tools used in Email Investigation. (CO1)

2. (a) Explain in detail about the Computer/network/Internet Forensics investigation. (CO2)

(b) Explain about of the following : (CO2)

(i) Windows incident response tools

(ii) Incident response

(c) What are the steps involved in data and evidence recovered from digital devices ? (CO2)

3. (a) What do you mean by Buffer overflow attack ? Explain with the help of a block diagram how the buffer over flow attack takes place. (CO3)

(b) Explain about the following : (CO3)

(i) Session Hijacking

(ii) Sql Injection attack

(c) What do you mean by cross site scripting attack ? How can we detect and solve cross site scripting attacks ? (CO3)

4. (a) What do you mean by Hardware Metering and Watermarking ? State the difference between these two terms. (CO4)

(b) What do you mean by Physical attacks related to Hardware Security in Digital Forensics ? (CO4)

(c) Explain about the following : (CO4)

(i) Three important components of physical security

(ii) Montgomery Reduction

5. (a) What do you mean by Mobile Forensics ? Explain the steps involved in Mobile Forensics investigation. (CO5)