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Roll No.

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)

(4)

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- (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)