1T00163 - MCA (Sem-III) (R-2021-22) / 70731 - Elective IV : Cyber Security & Digital Forensics   QP
CODE: 10017119   DATE: 23/12/2022

(3 Hours)   **[Total Marks: 80]**

N.B. (1) Question No. **1** is **Compulsory**.
(2) Attempt any **three** questions from the remaining **five** questions.
(3) Answers to **sub-questions** should be **grouped** and written **together**.

Q.1	A	Explain Information Technology Act-2000 key provisions.	[5]
	B	What is Identity theft? How to prevent it?	[5]
	C	What are the challenges faced in digital forensics?	[5]
	D	What are volatile evidences? What volatile data can be obtained from investigation of routers?	[5]
Q.2	A	Explain in detail SQL injection attack.	[10]
	B	What is digital forensic? Give its relevance to OSI 7 layer model.	[10]
Q.3	A	What is digital evidence? Explain the different phases involved in evidence collection procedure	[10]
	B	Explain DoS, DDoS attack and mitigation techniques.	[10]
Q.4	A	Explain in details how criminals plan attack.	[10]
	B	Explain the concept of duplication and preservation of digital evidence in detail.	[10]
Q.5	A	What is data recovery? Explain the role of backup in data recovery	[10]
	B	What is mobile device forensics? Explain concept of Android forensics.	[10]
Q.6	A	What is buffer overflow problem? How to minimize buffer overflow attack.	[10]
	B	What is intrusion detection system? Explain different types of intrusion detection system in detail.	[10]

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