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Question Paper Code	12624
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B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

Sixth Semester

**Computer Science and Engineering
20CSEL602 – DIGITAL FORENSICS**

Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

	Marks	K- Level	CO
1. Define Digital Forensics.	2	K1	CO1
2. Define Locard's Exchange Principle.	2	K1	CO1
3. State the necessary characteristics of a Digital Investigators.	2	K1	CO2
4. Differentiate Direct versus circumstantial Evidence.	2	K2	CO2
5. Express PyFLAG.	2	K1	CO4
6. Explain Fiwalk.	2	K1	CO4
7. Describe section 66C and 66D in cyber law.	2	K1	CO5
8. Differentiate Laws and Ethics.	2	K2	CO5
9. Define Network forensics.	2	K1	CO6
10. Represent how firewalls differ from routers.	2	K2	CO6

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) Demonstrate the role of computers in crime.	13	K2	CO1
OR			
b) Explain the Principles of Digital Forensics.	13	K2	CO1
12. a) Describe about Digital Investigation Process Models.	13	K2	CO2
OR			
b) With a neat diagram explain the case/incident resolution process.	13	K2	CO2
13. a) Illustrate ace, iris and fingerprint recognition.	13	K2	CO4
OR			
b) Explain about Internet artifacts, Brower and Mail artifacts.	13	K2	CO4

14. a) Summarize Electronic Communication Privacy ACT. 13 K2 CO5
- OR**
- b) Illustrate various Procedures for Evidence Handling. 13 K2 CO5
15. a) Explain in detail about Digital Evidence on Physical and Data-Link Layers. 13 K2 CO6
- OR**
- b) Elaborate Legitimate Versus Criminal Uses of Internet Services. 13 K2 CO6

PART - C (1× 15 = 15 Marks)

16. a) Represent how you will apply the Scientific Method in Digital Investigation. 15 K3 CO3
- OR**
- b) Explain the investigation scenario for security breach in detail for the below situation. “Data thieves target the IT system of Corporation X, a medium sized business that manufactures various parts for airplane engines.” 15 K3 CO3