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MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

II SEMESTER M.TECH.END SEM EXAMINATIONS

SUBJECT: CYBER SECURITY-OPEN ELECTIVE [ICT 5052]

Date: 4/7/2022

Time: 2:00 PM- 5:00 PM

Maximum Marks: 50

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| 1A. | What is CIA Triad? Discuss essential network and computer requirements. | 5 |
| 1B. | Draw taxonomy of attacks in connection to security goals and elaborate each attack. | 3 |
| 1C | Distinguish between cyber security and information security with example. | 2 |
| 2A. | What is a PKI? Explain the significance of each field in X.509v3 digital certificate. | 5 |
| 2B. | Why SSO is used? What are its components? Mention various security risks associated with SSO. | 3 |
| 2C. | How HMAC is different from MAC? | 2 |
| 3A. | Classify digital forensics tools. Mention two tools under each category with their usage. | 5 |
| 3B. | Explain TLS three key layer protection. | 3 |
| 3C. | What are various services provided by digital signature system? Give relevant examples. | 2 |
| 4A. | What are fuzzers? Discuss different types of Web application firewalls. | 5 |
| 4B. | In linux system forensics, how notable files and trojans are identified? | 3 |
| 4C. | What is forensic ballistics? Mention its types. | 2 |
| 5A. | Define a mail bomb. Discuss various type of mail bomb attacks. | 5 |
| 5B. | What is an IPR? What are various methods for IPR protection? | 3 |
| 5C. | Differentiate between IPC and CrPC. | 2 |