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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

- 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**