

Code No: 156EY**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, August/September - 2024****CYBER SECURITY****(Computer Science and Engineering – Cyber Security)****Time: 3 Hours****Max. Marks: 75**

- Note:** i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A**(25 Marks)**

- 1.a) Define passive attacks. [2]
- b) What do you understand by a threat? List the types of Cyber Security threats. [3]
- c) What is the difference between cyber forensics and digital forensics? [2]
- d) List various techniques used in cyber forensic investigation? [3]
- e) Define Jailbreaking and Rooting techniques in mobile security threats. [2]
- f) Mention the elements of credit card frauds. [3]
- g) Why there is a need to include mobile devices in the security policy? [2]
- h) Give the importance of keeping security patches and viruses signatures up to date. [3]
- i) Define data privacy attack. [2]
- j) Write the importance of privacy in medical field. [3]

PART – B**(50 Marks)**

- 2.a) What is vulnerability in Cyber Security? How do attackers use vulnerabilities to attack a system?
 - b) Differentiate software attacks and hardware attacks in detail. [5+5]
- OR**
- 3.a) What is CIA triad? Explain it in detail.
 - b) Write the importance of building a comprehensive Cyber Security policy. [5+5]
- 4.a) What do you understand Cyber Security Regulations? Why they are important?
 - b) Explain the process of forensics analysis of an email. [5+5]
- OR**
- 5.a) Describe the process of collecting digital evidences. Mention the importance of digital evidences.
 - b) Illustrate Digital Forensics lifecycle in detail. [5+5]
- 6.a) What do you understand by trends in mobility? Explain the types of mobility and its implication.
 - b) Describe the various security challenges posed by mobile devices. [5+5]

OR

- 7.a) How to secure mobile devices from cybercrime? Explain the importance of registry settings of mobile devices.
- b) Discuss the importance of organizational security policies and measures in Mobile Computing era. [5+5]

- 8.a) Discuss the types of web threats that an organization may encounter.
- b) Describe the security risks and perils for an organization for social media marketing. [5+5]

OR

- 9.a) What do you understand by social computing? Discuss its associated challenges for an organization.
- b) Mention the best practices that can be followed by an organization for the use of social media marketing tools. [5+5]

- 10.a) Write a short note on privacy policy language.
- b) Discuss an Indian case of Intellectual Property crime. [5+5]

OR

- 11.a) What is data profiling? Describe the four general methods of profiling.
- b) Discuss any one case of e-mail spoofing in India. [5+5]

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