

R18

Code No: 156DN

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, January/February - 2025

CYBER LAWS AND ETHICS

(Common to CE, EEE, ECE)

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) What is cyber security? [2]
- b) What is access control mechanism? [3]
- c) What is an orange book? [2]
- d) What do you mean by the terms accountability and assurance? [3]
- e) What is a corporate policy? [2]
- f) Why to implement an Information Security Policy? [3]
- g) Define information integrity. [2]
- h) What is meant by secure program administration? [3]
- i) What is an Organizational security? [2]
- j) What are the risks of irresponsible employees to computer security? [3]

PART – B

(50 Marks)

- 2.a) Explain the different types of computer security.
- b) Describe counter measures to be taken for possible security threats. [5+5]

OR

- 3.a) Discuss about Computer Security mandates and legislation.
- b) Describe the view of computer security in International space. [5+5]

- 4.a) Briefly explain the actions involved in computer security planning.
- b) Explain the concepts of accountability and assurance with respect to orange book security. [5+5]

OR

5. What is red book? In detail, explain the activities noted in the red book. [10]

- 6.a) In organization wide Tier-1 policy, explain conflict of interest and Records management policies.
- b) Describe the stages in policy development. [5+5]

OR

- 7.a) What is Process Management? What are its key capabilities?
- b) Explain the steps to create a reliable information security plan. [5+5]

QA QA QA QA QA QA QA G

- 8.a) How is information classified in achieving information security?
- b) Explain availability and confidentiality with respect to Information security. [5+5]

QA QA QA QA **OR** QA QA QA G

- 9.a) Explain about following tools of information security: NMap and Metasploit.
- b) What is a firewall? How it works? [5+5]

- 10.a) Describe the role of information security professionals.
- b) Why information security management standards need to be adopted? [5+5]

QA QA QA QA **OR** QA QA QA G

- 11.a) What are the skills and qualifications required for a IT security professional?
- b) List out the guidelines to be followed to achieve a culture of information security. [5+5]

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QA QA QA QA QA QA QA G

QA QA QA QA QA QA QA G

QA QA QA QA QA QA QA G

QA QA QA QA QA QA QA G

QA QA QA QA QA QA QA G