

Code No: 5405AZ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**M. Tech I Semester Examinations, June/July – 2019****FUNDAMENTALS OF CYBER SECURITY****(Common to DSCE, SE, AMS, DECS, PEED, ES, VLSI System Design, CS, VLSI and ES)****Time: 3hrs****Max.Marks:75****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.
Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A**5 × 5 Marks = 25**

- 1.a) How the assessment is done in cyber security? [5]
- b) Write a short note on phishing attack. [5]
- c) Describe security radio frequency identification (RFID) systems? [5]
- d) What are the steps involve in software development process? Explain. [5]
- e) Differentiate between malware and Trojan War. [5]

PART - B**5 × 10 Marks = 50**

2. How the information security testing is performed in cyber security? Explain. [10]
- OR**
- 3.a) What is sphere of cyber security? How the sphere of cyber security helps to protect the organization data? [5+5]
 - b) What is the role of cyber defense against threats? Explain. [5+5]
- 4.a) Differentiate between mail bomb and logic bomb.
 - b) Discuss various types of viruses in cyber crime. How do you prevent from virus attack? [5+5]
- OR**
- 5.a) Explain the law of cyber security.
 - b) How hacking and cracking done in cyber crimes? [5+5]
- 6.a) What are the processes involve in vulnerability management? Explain.
 - b) Explain the strategies of password selection. [5+5]
- OR**
- 7.a) Explain the intrusion prevention system.
 - b) How to detect the intrusion in network security? Explain. [5+5]

- 8.a) Write about various types of keys in pretty good privacy.
b) Explain about software tamper resistance. [5+5]
- OR**
9. What is antivirus software? Briefly discuss about operating system hardening. [10]
- 10.a) Explain the new ways to monetize non financial data.
b) Explain the following:
i) Cyber-Terrorism ii) Cyber –War iii) Cyber-Peace. [5+5]
- OR**
- 11.a) How the automatic recovery occurs in cyber security? Explain.
b) How to provide privacy in location based applications? Explain. [5+5]

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