

EVEN SEMESTER EXAMINATION, 2022 – 23

COURSE: M.TECH

SEMESTER- II

SUBJECT: CYBER SECURITY

Duration: 3:00 hrs

Max Marks: 100

Note: - Attempt all questions. All Questions carry equal marks. In case of any ambiguity or missing data, the same may be assumed and state the assumption made in the answer.

Q 1.	Answer any four parts of the following. a) What is cyber security? How does it work? Explain with example. b) What is cyber threat? Explain its different types. c) Discuss the principles of cyber security. d) Differentiate between virus and worms with suitable example. e) Write down the process of cyber security risk management. f) What is phishing? How to protect from it.	5x4=20
Q 2.	Answer any four parts of the following. a) What do you mean by cyber security models? Explain Parkerian Hexad model. b) What do you mean by the term 'Malware' in cyber security? c) Discuss Effective strategic planning elements. d) Why employee awareness is beneficial for any organization to manage cyber Security threats? e) What do you mean by cyber crime? Explain. f) Write short note on IT ACT 2000.	5x4=20
Q 3.	Answer any two parts of the following. a) Explain the process of certification and accreditation for any cyber security organization. b) Explain the CIA properties and its role in cyber security. c) What is FISMA? Explain.	10x2= 20
Q 4.	Answer any two parts of the following. a) What do you mean by security metrics? Give an example to illustrate. b) What do you mean by the term 'security risk'? How the process of risk identification and assessment is done? c) What do you mean by Key Performance Indicators (KPI) in cyber security? Explain with example.	10x2= 20
Q 5.	Answer any two parts of the following. a) What do you mean by cyber security metrics? Give a suitable example. b) What do you understand by cyber crime? Explain the different categories of cyber crime with example. c) What do you mean by Advance Persistent Threat(APT)? Discuss characteristics, symptoms and phases of APT.	10x2= 20