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**INSTITUTE OF AERONAUTICAL ENGINEERING**

(Autonomous)

Dundigal-500043, Hyderabad

B.Tech IV SEMESTER END EXAMINATIONS (REGULAR) - JULY 2022

Regulation:UG20

FOUNDATIONS OF CYBER SECURITY**Time: 3 Hours****(CSE-CYBER SECURITY)****Max Marks: 70****Answer ALL questions in Module I and II****Answer ONE out of two questions in Modules III, IV and V**

(NOTE: Provision is given to answer TWO questions from among one of the Modules III / IV / V)

All Questions Carry Equal Marks**All parts of the question must be answered in one place only****MODULE – I**

1. (a) What is cybercrime and classify the various categories of cybercrime. Explain one of them in detail.
[BL: Understand| CO: 1|Marks: 7]
- (b) How the lack of information security gives rise to cyber crimes? Summarize the following terms:
i) Cyber threat ii) Cyber warfare iii) Cyber Espionage iv) Cyber terrorism.
[BL: Understand| CO: 1|Marks: 7]

MODULE – II

2. (a) Show the process model for understanding a seizure and handling of forensics evidence legal framework.
[BL: Understand| CO: 2|Marks: 7]
- (b) Interpret the national cyber security policy and justify the role of international law in preserving the cyber security.
[BL: Understand| CO: 2|Marks: 7]

MODULE – III

3. (a) List and explain the security challenges posed by the sophisticated technologies in mobile devices with in the cyber security.
[BL: Understand| CO: 3|Marks: 7]
- (b) Describe the remedies to prevent credit-card frauds. List and explain the different types and techniques related to credit card frauds.
[BL: Understand| CO: 3|Marks: 7]
4. (a) Classify the types of attacks against 3G mobile networks. Outline the attacks that have emerged as bluetooth specific security issues.
[BL: Understand| CO: 4|Marks: 7]
- (b) Outline the key findings for mobile security? Discuss about mishing, vishing and smishing with respect to mobile security.
[BL: Understand| CO: 4|Marks: 7]

MODULE – IV

5. (a) Explain the organizations internal cost and also illustrate the costs associated with cybercrime incidents.
[BL: Understand| CO: 5|Marks: 7]
- (b) Categorize different types of mobile workforce in organization. Demonstrate the working of a firewall with DMZ networks.
[BL: Understand| CO: 5|Marks: 7]

6. (a) Write about social computing. Outline the key challenges emerging from new information threats to organization. [BL: Understand| CO: 5|Marks: 7]
(b) List the different types of social media tools and also interpret the reasons for why organizations use social media for promoting their products and services. [BL: Understand| CO: 5|Marks: 7]

MODULE – V

7. (a) How official website of Maharashtra was hacked? Write a brief note on the case study of official website of maharashtra government hacked. [BL: Remember| CO: 6|Marks: 7]
(b) Illustrate a mini case on intellectual property crime. Show the scenario of cyber attack on the parliament. [BL:Remember| CO: 6|Marks: 7]
8. (a) Explain different causes that helps to prevent banking-related frauds. Discuss about phishing incident in banking related frauds. [BL: Understand| CO: 6|Marks: 7]
(b) Outline the financial frauds in cyber domain. Discuss in detail about instances of E-mail spoofing. [BL: Understand| CO: 6|Marks: 7]

