IV B. TECH I SEMESTER REGULAR EXAMINATIONS, NOVEMBER - 2023
CYBER SECURITY ESSENTIALS
(COMMON TO CIC, CSO & AID BRANCHES)

Time: 3 hours   Max. Marks: 70

Note : Answer **ONE** question from each unit **(5 × 14 = 70 Marks)**
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UNIT-I

1. a) Explain the architecture of cyberspace, emphasizing its interconnected components. [7M]

    b) Identify the major elements of the internet infrastructure for data transfer and governance. [7M]

(OR)

2. a) Recall the historical development and advent of the internet. [7M]

    b) Analyze the challenges and issues related to cyber security in the modern era. [7M]

UNIT-II

3. a) List three common types of cybercrimes and explain them briefly. [7M]

    b) Examine a case study on a malware attack and identify the vulnerabilities that were exploited. [7M]

(OR)

4. a) Describe the legal perspective of cyber crime as outlined in the IT Act of 2000 and its amendments. [7M]

    b) Evaluate the effectiveness of current organizational strategies in India dealing with cyber crimes and cyber security. [7M]

UNIT-III

5. a) Recall one principle of data protection mentioned in regulations like GDPR. [7M]

    b) Describe in detail about any two types of social media platforms. [7M]

(OR)

6. a) Evaluate the potential pitfalls associated with the use of social media in marketing. [7M]

    b) Demonstrate how to flag and report inappropriate content on a social media platform. [7M]

UNIT-IV

7. a) What is the definition of E-Commerce, and explain how it differs [7M] from traditional commerce?

b) Summarize the key components of the Payment and Settlement Act, [7M] 2007.

(OR)

8. a) Evaluate the strengths and weaknesses of different modes of digital [7M] payments in terms of security.

b) Apply preventive measures to protect against common frauds in [7M] digital payments.

UNIT-V

9. a) Recall the key elements of a mobile phone security policy. [7M]

b) Demonstrate the steps involved in managing security patches on an [7M] endpoint device.

(OR)

10. a) Differentiate between a host firewall and an antivirus program. [7M]

b) Examine the configuration of basic security policies and [7M] permissions, identifying potential vulnerabilities.

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