322833(22)

APR-MAY

B. E. (Eighth Semester) Examination, 2020

(New Scheme)

(Specialization : Compeller Science)

(CSE, IT Branch)

CYBER SECURITY

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : *Attempt all questions. Part (a) is compulsory.*
Attempt any ***two*** *from (b), (c) & (d).*

Unit-I

1. (a) Define Cyber Crime.   2

    (b) Describe various security concepts involved in cyber
        security.   7

(c) Discuss different cyber crime prevention techniques. 7

(d) Which are the industries most exposed to cyber attack and why? 7

Unit-II

2. (a) Define Proxy. 2

(b) Define Flux. Explain fast and advanced fast flux in brief. 7

(c) Explain different fraud techniques used for intruding mobile devices. 7

(d) Write short notes on : 7

(i) Phishing

(ii) Botnets

Unit-III

3. (a) Define Shellcode. 2

(b) What is SQL injection? Explain how attackers make use of SQL injections? 7

(c) Define Race Condition. Explain detection and prevention techniques for Race Condition. 7

(d) Write short notes on :　　　　　　　7

    (i) Cross-site scripting (XSS)

    (ii) Denial of Services

Unit-IV

4. (a) What is Digital Signature?　　　　　2

(b) Describe amendments and limitations of IT Act.　　7

(c) Write short note on IT Act, 2000 by giving details on major sections dealing with crime.　　7

(d) Discuss various types of Cyber Offences.　　7

Unit-V

5. (a) Explain trademark law.　　　　　　2

(b) Explain briefly online dispute Resolution.　　7

(c) Discuss the procedure to protect electronic database.　　7

(d) Differentiate between copyright and patent.　　7