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Question Paper Code: BCSB11

M.Tech II Semester End Examinations (Regular) - May, 2019

Regulation: .–R18

CYBER SECURITY

Time: 3 Hours (CSE) **Max Marks: 70**

Answer ONE Question from each Unit
All Questions Carry Equal Marks
All parts of the question must be answered in one place only

UNIT – I

1. (a) Explain in detail about various types of cyber crime and discuss briefly about Web Server. [7M]
   (b) Explain the n-tier web application architecture with an example. [7M]
2. (a) Explain about public key cryptography, its applications with an example. [7M]
   (b) Describe the overview of cybercrime, nature and scope of cybercrime. [7M]

UNIT – II

3. (a) Apply RSA algorithm to perform encryption and decryption for the p = 3; q = 11, e = 7;M = 5. [7M]
   (b) Describe briefly about mail bombs and exploitation and various web attacks. [7M]
4. (a) What are digital laws and legislation. What are the roles and responses of law enforcement. Explain. [7M]
   (b) Explain security management system in online shopping and payment gateway system. [7M]

UNIT – III

5. (a) Differentiate between symmetric and asymmetric encryptions [7M]
   (b) Explain briefly about cybercrime investigation tools. [7M]
6. (a) Explain about e-mail tracking, IP tracking and digital evidence collection? [7M]
   (b) What step you will take to conclude that a URL is malicious and steps will you take when you encounter a malicious URL. [7M]

UNIT – IV

7. (a) What are the advanced tools used for forensics software and hardware analysis explain. [7M]
   (b) Can a computer spoof a tcp connection to frame another computer in the same broadcast domain? If so, explain in detail how? If not, explain why not. [7M]
8. (a) Explain briefly the concept of digital forensics with example. [7M]
   (b) Explain in detail about how forensics helps in face ,iris, fingerprint recognition, audio video analysis. [7M]

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UNIT – V

9. (a) Explain in detail how large scale applications are protected from unauthorized users. [7M]
   (b) Explain the digital evidence handling procedure and evidence control. [7M]

10. (a) List and explain all the sections of the electronic communication privacy act. Give example situation where a criminal is let free due to the drawbacks in electronic communication privacy act. [7M]
    (b) Assume you are developing a website of a UNIVERSITY. List all the JDBC APIs and JDBC drivers used to develop the software. [7M]

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