INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)
Dundigal, Hyderabad - 500 043

MODEL QUESTION PAPER - II

M.TECH II Semester End Examinations, November - 2018
Regulation: IARE-R16

CYBER SECURITY

(COMPUTER SCIENCE AND ENGINEERING)

Time: 3 Hours   **Max Marks: 70**

Answer any 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) Describe different kinds of web attacks .What is the procedure of each attack. [7M]

   b) Explain the n-tier web application architecture with an example. [7M]

2. a) What the concept of a web server. and their applications. [7M]
   b) Define a database server . Discuss the advantages of database server [7M]

UNIT - II

3. a) Define Public Key cryptography. Describe with a suitable example. [7M]

   b) Explain with example THE RSA cryptography. [7M]

4. a) Explain the concept of computer intrusion with an example [7M]

   b) Explain various digital laws and legislations regarding cyber crimes and how they are applicable with examples . [7M]

UNIT – III

5. a) Explain with an example about applet security and discuss their features. [7M]
   b) Explain about how servlet security can be implemented. [7M]
6. a) Describe how email investigation takes place in different areas .and explain the procedure in steps [7M]
   b) xplain any one Encryption and Decryption methods with suitable examples. [7M]

UNIT – IV

7. a) Define forensic ballistics. Give their applications in various areas of cyber crime. [7M]
   b) Explain forensic analysis and advanced tools their advantages and disadvantages. [7M]
8. a) Explain how iris recognition is helpful in cyber security. [7M]

   b) Explain the concept of hashing using an example. [7M]

UNIT – V

9	a)	Explain with example secure JDBC	[7M]
	b)	Explain Indian Evidence Act	[7M]
10	a)	Explain in detail about legal policies related to cyber crime.	[7M]
	b)	Explain the electronic communication privacy act.	[7M]

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I.   COURSE OBJECTIVES (COs):

The course should enable the students to:

S.No	Description
I	Explain the core information assurance principles.
II	Identify the key components of cyber security network architecture.
III	Apply cyber security architecture principles
IV	Describe risk management processes and practices.

II.   COURSE LEARNING OUTCOMES(CLOs):

Students who complete the course will have demonstrated the ability to do the following.

BCS006.01	Identify different types of web attacks.
BCS006.01	Understand various categories of cyber crime.
BCS006.01	Design different security algorithms.
BCS006.01	Identify various cyber crime issues.
BCS006.01	Understand the concept of security in applets and servlets .
BCS006.01	Develop cyber crime investigation tools.
BCS006.01	Understand about digital forensics.
BCS006.01	Evaluate the type of forensics.
BCS006.01	Identify the laws and acts related to cyber crime.

Signature of Course Coordinator   **HOD, CSE**