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Question Paper Code: BCS006



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

M.Tech II Semester End Examinations (Regular) - July, 2017

Regulation: IARE-R16

**CYBER SECURITY**

(Computer Science and Engineering)

**Time: 3 Hours**

**Max Marks: 70**

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**Answer ONE Question from each Unit**

**All Questions Carry Equal Marks**

**All parts of the question must be answered in one place only**

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## UNIT – I

1. (a) Explain in detail about various types of cyber crime and discuss briefly about Web Server. [7M]  
(b) Describe the architecture of Apache and IIS web servers, Database server and explain its functionality. [7M]
2. (a) Explain briefly about computer forensics. [2M]  
(b) Discuss about different types of [12M]
  - i. Web languages
  - ii. Web security
  - iii. N-tier web applications.

## UNIT – II

3. (a) Explain in brief about cryptography, its purpose and concept of virus. [4M]  
(b) Illustrate the application of RSA algorithm in real time with an example. [10M]
4. (a) Explain about public key cryptography, its applications and using example. [7M]  
(b) Explain in brief about how intrusion detection systems are being implemented. [7M]

## UNIT – III

5. (a) Explain the concept of working of an e-mail preservation and investigation in cyber crime. [7M]  
(b) Explain briefly about cyber crime investigation tools and their implementation. [7M]
6. (a) Define firewall. And explain how the firewall can be applied to overcome the virus. [6M]  
(b) Describe how e-mail can be recovered. Explain the concept of e-mail preservation and investigation. [8M]

#### UNIT – IV

7. (a) Explain briefly about the various applications of digital forensics. [4M]  
(b) Explain briefly about working model of [10M]  
    i. Linux system forensics  
    ii. Network forensics
8. (a) Explain in detail about how forensics helps in face ,iris, fingerprint recognition, audio video analysis. [7M]  
(b) What are the various advanced tools used for implementation forensics software and hardware analysis? Briefly explain. [7M]

#### UNIT – V

9. (a) Assume you are developing a website of a software company. List all the JDBC APIs and JDBC drivers used and explain how proxy design pattern is used to design secure JDBC driver. Also explain how SSL tunneling is used in secure jdbc transmission. [7M]  
(b) 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]
10. (a) Explain the procedure of JDBC connectivity in real time application with an example. [7M]  
(b) What are the basics of Indian Evidence Act IPC and CrPC. Explain in detail. [7M]

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