

Hall Ticket No

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Question Paper Code: BCS006



**INSTITUTE OF AERONAUTICAL ENGINEERING**  
(Autonomous)

M.Tech II Semester End Examinations (Regular / Supplementary) - July, 2018

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) Write short notes on web languages and web security. [7M]  
(b) What are the properties, nature and scope of cyber crime. [7M]
2. (a) Explain the categories of cyber crime in social Engineering. [7M]  
(b) Draw the architecture of database web server and discuss briefly. [7M]

**UNIT – II**

3. (a) Define intellectual property, internet hacking and cracking with an example. [7M]  
(b) What are digital laws and legislation? What are the roles and responsibilities of law enforcement? Explain. [7M]
4. (a) Differentiate between symmetric and asymmetric encryption. [7M]  
(b) What is payment gateway and how it functions? Explain with examples. [7M]

**UNIT – III**

5. (a) Explain how security is provided in applets and servlets using Java with an example. [7M]  
(b) Explain the basic concepts of network security with firewalls and IDS. [7M]
6. (a) What is e-mail tracking , IP tracking and digital evidence collection. [7M]  
(b) What are different encryption and decryption methods. Explain. [7M]

**UNIT – IV**

7. (a) Explain briefly the concept of digital certificate with examples. [7M]  
(b) Discuss the technique of hashing and message digest with an example. [7M]
8. (a) What step you will take to conclude that a URL is malicious. What steps will you take when you encounter a malicious URL to remove it. [7M]  
(b) List atleast 4 test cases for a finger print recognition software. [7M]

**UNIT – V**

9. (a) What are the basics of Indian Evidence Act IPC. Explain. [7M]  
(b) Explain in detail how large scale applications are protected from unauthorized users. [7M]
10. (a) Explain the various evidence handling procedures in databases and their applications in real world. [7M]  
(b) Explain electronic communication privacy act and legal policies. [7M]

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