R15

Code No: 824AE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA IV Semester Examinations, June/July - 2018
INFORMATION SECURITY

Time: 3hrs   Max.Marks:75

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

5 × 5 Marks = 25

1.a)	What are the characteristics of Information?	[5]
b)	Define Stream Ciphers.	[5]
c)	What do you mean Biometric Authentication?	[5]
d)	What is IP Security?	[5]
e)	Define Firewall.	[5]

PART - B

5 × 10 Marks = 50

2. Explain in detail about Steganography. [10]

OR

3. Describe the need for Security. [10]

4. Discuss the AES Algorithm. [10]

OR

5. Explain Diffie-Hellman key exchange algorithm with an example. Also explain attack on Diffie-Hellman key exchange. [10]

6. Write in detail about Knapsack Algorithm. [10]

OR

7. What is Message Digest? Explain HMAC algorithm. [10]

8. How Does S/MIME Work? Explain in detail. [10]

OR

9. Write a note on IP Security protocols for security. [10]

10. Explain in detail about Secure Electronic Transaction (SET). [10]

OR

11. What are different services provided by the SSL Record Protocol? [10]

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