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Code No: 824AE JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA IV Semester Examinations, June/July - 2018 INFORMATION SECURITY

Time: 3hrs

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

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

ORCO 2. Explain in detail about Steganography. [10] Describe the need for Security. 3. [10] 4. Discuss the AES Algorithm. [10] OR Explain Diffie-Hellman key exchange algorithm with an example. Also explain attack on 5. Diffie-Hellman key exchange. [10] Write in detail about Knapsack Algorithm. 6. [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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Max.Marks:75

 5×5 Marks = 25

5 × 10 Marks = 50