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Question Paper Code: 52921

M.E. DEGREE EXAMINATION, DECEMBER 2015

Elective

COMMUNICATION SYSTEMS

15PCM509 - COMMUNICATION NETWORK SECURITY

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 3 = 15 Marks)

1. What is the principle of steganography?
2. Write a short note on RC4.
3. Define digital signature with its merits.
4. Differentiate hardware and software firewalls.
5. What is a Secure Sensor Network? Identify the usage of SSN.

PART - B (5 x 14 = 70 Marks)

6. (a) List and explain the various types of attacks in detail. (14)

Or

- (b) What do you mean by public key cryptography? Explain the RSA algorithm and its security mechanisms. (14)

7. (a) Explain in detail about the advanced encryption standard. (14)

Or

- (b) Give a detailed account of DES. (14)

8. (a) Explain in detail about the secure Hash algorithm with an example. (14)

Or

(b) Explain in detail the principle of Biometrics. (14)

9. (a) Explain about transport layer security in detail. (14)

Or

(b) Discuss the types of firewalls and their design considerations in detail. (14)

10. (a) Discuss the security attacks in Ad-hoc Networks. (14)

Or

(b) Write a detailed note on WEP for Wi-Fi network and Worm hole. (14)

PART - C (1 x 15 = 15 Marks)

11. (a) Explain in detail about IP security. (15)

Or

(b) Explain about monoalphabetic ciphers and polyalphabetic ciphers with examples. (15)
