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|   | Reg. No. :   |
|---|--|
|   | Question Paper Code: 40916   |
|   | M.E./M.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.                 |
|   | Second Semester  |
|   | Communication Systems  |
|   | NC 5291 — COMMUNICATION NETWORK SECURITY                                 |
|   | (Common to M.E. Communication and Networking)                            |
|   | (Regulations 2017)   |
|   | Time : Three hours Maximum : 100 marks                                   |
|   | Answer ALL questions.  |
|   | PART A — $(10 \times 2 = 20 \text{ marks})$                              |
|   | 1. What are the key principles of security?                              |
| 3 | * 2. State Fermat's theorem.   |
|   | 3. What is DES?  |
|   | 4. Is Diffie Hellman symmetric or asymmetric?                            |
|   |  |
|   | 5. What does MAC provide?  |
|   | 6. What is the function of a digital certificate?                        |
|   | 7. Distinguish between entity authentication and message authentication. |
|   | 8. What is Radius Security?  |
|   | 9. What is IPSec used for?   |
|   | 10. What is S MIME for email?  |
|   | 10. What is D Milvier for email:   |
|   |  |
|   |  |

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|   |        | PART B — $(5 \times 13 = 65 \text{ marks})$  |  |
|---|--------|--|--|
| 1 | 1. (a) | Explain about Security Services in detail.   |  |
|   |        | Or   |  |
|   | (b)    | (i) Distinguish between Plaintext and Ciphertext. (6)  |  |
|   |        | (ii) What about the general case of the quadratic congruence equation of the following form? $\alpha y^2 + \beta y + \gamma \equiv 0 \pmod{p}$ . (7)   |  |
| 1 | 2. (a  | Give a notes on RSA Algorithm with example.  |  |
|   |        | Or   |  |
|   | (Б     |  |  |
| 1 | 3. (a  | Discuss Cryptography Hash functions with its applications.   |  |
|   |        | Or   |  |
|   | (b     |  |  |
| 1 | 14. (a |  |  |
| * | (a.    | (i) Methods of generating the OTP (6)  |  |
|   |        | (ii) Methods of delivering the OTP. (7)  |  |
|   |        | Or   |  |
|   | (b     |  |  |
| 1 | l5. (a | ) Discuss SSL Architecture in detail.  |  |
|   |        | Or   |  |
|   | (b     | ) Explain in detail about the layers of Computer security.   |  |
|   |        | PART C — (1 × 15 = 15 marks)   |  |
| 1 | 16. (a | ) Analyze the different types of firewalls.  |  |
|   |        | Or   |  |
|   | (b     |  |  |
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