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Question Paper Code : X 67533

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020
Sixth/Eighth Semester
Electronics and Communication Engineering
CS 1028 A – NETWORK SECURITY
(Regulations 2008)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. Give an example for any substitution cipher.
2. What are the modes of DES ?
3. Find GCD (14, 36) using the Eulers theorem.
4. Enumerate the steps in ECC Diffie-Hellman Key Exchange.
5. What are the functions of S-MIME ?
6. Why does ESP include a padding field ?
7. What are Intruders ?
8. What is meant by Trusted System ?
9. What are the password management Strategies ?
10. Give two example models for Trusted systems.

PART – B

(5×16=80 Marks)

11. a) Explain briefly about DES and its strength. **(16)**

(OR)

- b) Discuss the various approaches involved in random number generation. **(16)**



12. a) What is Public Key Cryptography ? Explain RSA and Diffie Hellman Key Exchange Algorithms with suitable examples. **(16)**
- (OR)
- b) Explain the concept of Digital Signature and Authentication Protocol in detail. **(16)**
13. a) Discuss about Kerberos X.509 Architecture and Authentication services in detail. **(16)**
- (OR)
- b) i) Describe IP Security Architecture in detail. **(8)**
ii) Explain about E-Mail application and MIME. **(8)**
14. a) Discuss the types of firewalls in detail. **(16)**
- (OR)
- b) Explain the password selection strategies. **(16)**
15. a) Give an overview of the wireless LAN security standards and mechanisms. **(16)**
- (OR)
- b) Elaborate on the issues and challenges in a wireless LAN. **(16)**
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