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H – 2966

Reg. No.

Name :

Eighth Semester B.Tech. Degree Examination, November 2019

(2013 Scheme)

13.801 : CRYPTOGRAPHY AND NETWORK SECURITY (R)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions. Each question carries **4** mark.

1. What is Rotor machine?
2. Write short note on *Steganography*.
3. Differentiate between public key cryptography and Private Key cryptography.
4. Explain the term VPN
5. Explain the term replay attack

(5 × 4 = 20 Marks)

PART – B

Answer **any one full** questions from **each** Module.

Module – I

- | | |
|---|-----------|
| 6. (a) Explain IDEA algorithm. | 8 |
| (b) Explain DES algorithm with block diagrams. | 12 |
| OR | |
| 7. (a) Explain AES algorithm with block diagrams. | 15 |
| (b) Differentiate between substitution ciphers and transposition ciphers. | 5 |

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Module – II

8. (a) List basic qualifying requirements of a Cryptographic Hash function. **5**
(b) Explain SHA algorithm with block diagrams. **15**

OR

9. (a) Explain MD5 algorithm with block diagrams. **10**
(b) Explain Digital Signature Algorithm. **10**

Module – III

10. (a) Explain internet key exchange with respect to IP security. **5**
(b) Explain IP security scenario with neat diagram. **7**
(c) Explain IP sec architecture with block diagram. **8**

OR

11. (a) Explain various functions of S/MIME. **5**
(b) What are the different cryptographic algorithms used in S/MIME? **5**
(c) Explain PGP message generation and reception with block diagrams. **10**

Module – IV

12. (a) Write short notes on secure electronic transactions. **5**
(b) What are the different types of threats, consequences and counter measures on web in the context of transport level security? **15**

OR

13. (a) Draw block diagram of SSL protocol Stack. **4**
(b) Explain each protocol of SSL protocol stack. **16**

