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Code No: 137SH

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, March - 2021

CRYPTOGRAPHY AND NETWORK SECURITY

(Information Technology)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

- 1.a) Explain in detail the need for Security. Write a detailed note on various Security Approaches.
- b) Differentiate between symmetric and asymmetric key cryptography. [6+9]
2. Write a detailed note on working of DES. [15]
3. Explain in detail about implementing Knapsack Algorithm using Asymmetric key Ciphers. [15]
4. Discuss in detail implementation of SHA-512 algorithm. [15]
5. Explain in detail the following:
a) Kerberos b) Message Authentication c) Digital Signatures. [5+5+5]
6. Write a detailed note on Secure Socket Layer and Transport Layer Security. [15]
- 7.a) Explain about the types of security attacks.
- b) Explain about the transposition techniques with an example. [8+7]
- 8.a) Discuss in detail about Secure Multiparty Calculation.
- b) Explain in detail about Virtual Elections. [10+5]

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