

**R19****Code No: 863AE****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA III Semester Examinations, March/April - 2022****INFORMATION SECURITY****Time: 3 Hours****Max.Marks:75**

**Answer any five questions**  
**All questions carry equal marks**

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1. What are Security Attacks? Explain different types of Security Services in detail. [15]
2. Write a detailed note on DES and Strength of DES. [15]
3. Explain in detail the implementation of Diffie-Hellman Key Exchange algorithm. [15]
- 4.a) Write a detailed note on Key Management.  
b) Explain in detail about SHA-512. [6+9]
- 5.a) Explain briefly about Digital Signatures.  
b) Write a detailed note on Kerberos. [6+9]
6. Write a detailed note on Pretty Good Privacy (PGP). [15]
- 7.a) Explain in detail about Secure Electronic Transaction (SET).  
b) Write a brief note on Combining Security Associations and Key Management. [9+6]
8. What are Intruders? Explain in detail about Intrusion Detection Systems. [15]

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