**R16** 

(AUTONOMOUS)         B.Tech IV Year I Semester Supplementary Examinations July-2022 INFORMATION SECURITY (Computer Science & Information Technology)         Time: 3 hours         (Auswer all Five Units 5 x 12 = 60 Marks) UNTT-1         UNTT-1         1         a Describe in detail about Conventional Encryption Model.       6M         b Determine the security mechanisms required to provide various types of security services.         OR         2         a Explain about the Encryption and decryption functions Triple DES.       6M         b Explain how diffusion and confusion are used in Block Ciphers.       6M         Determine the GCD(24140,16762) using Euclid's algorithm.       8M         b Compare conventional encryption with public key encryption.       4M         OR         4       a What are the requirements and applications of public key cryptography?       7M         b Discuss about Euler's theorem.       5M         OR         A List out applications of cryptographic hash functions.       6M         Descuise about the objectives of HMAC and its security features.       7M         Discuss about the objectives of HMAC and its secur			SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR			
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disadvantages.		b	What is meant by stateful packet inspection? What are the advantages and disadvantages.	6M		

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