Hall Ticket No:	Question Paper Code: 16MCA40
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MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA(2Yrs) I Year IlSemester (R16) Supplementary End Semester Examinations – Mar' 2021 (Regulations: R16)

NETWORK SECURITY ESSENTIALS AND STANDARDS

Time: 3H	irs	
	Max Ma Attempt all the questions. All parts of the question must be answered in one place only. In Q.no 1 to 5 answer either Part-A or B only	arks: 50
Q.1(A)	Explain the OSI reference model in detail with a neat diagram	
0.4/5\	OR	
Q.1(B)	i. Discuss the methods to break an encryption scheme	
0.2(4)	ii. Compare and contrast the differences between virus and worms	
Q.2(A)	i. What is meant by Secret Key Cryptography? Explain the concept of Secret Key Cryptography.	5M
	ii. Explain DES Algorithm	5M
	OR	
Q.2(B)	Explain RSA algorithm in detail with an example	10M
Q.3(A)	Write a detailed note	
	i. Password Based authenticationii. Address Based authentication	5M
		5M
0.3(0)	OR	
Q.3(B)	Explain the concept of	
	i. Session Key Establishment	5M
0.4(4)	ii. Deligation	5M
Q.4(A)	What is meant by Kerberos algorithm? Explain Kerberos V4	10M
	OR	
Q.4(B)	Explain the Encapsulating Secure Payload Protocol in IP Security	10M
Q.5(A)	i. What is meant by an Electronic Mail? Mention some protocols that involve in	5M
	Email Security.	5M
	ii.Write short notes on Pretty Good Privacy Protocol (PGP) OR	
Q.5(B)	i. Write short notes on MIME protocol	5M
	ii. Write short notes on POP	5M
	*** END***	