MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)
MCA (2Yrs) I Year I Semester (R18) Supplementary End Semester Examinations -Mar' 2021
(Regulations: R18)
COMPUTER NETWORKS

Time: 3Hrs   Max Marks: 60

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

Q.1(A)	i. Compare the OSI model and TCP/IP model.	6M
	ii. Discuss different types of guided transmission media.	6M
	OR	
Q.1(B)	Explain the need for Network Protocol Architecture with example.	12M
Q.2(A)	What is access control? Explain CSMA in detail.	12M
	OR	
Q.2(B)	Define flow control. Discuss Simple and Wait ARQ in detail.	12M
Q.3(A)	i. Discuss the header format of IPv4 datagram.	6M
	ii. Differentiate between IPv4 and IPv6 packet headers.	6M
	OR	
Q.3(B)	Define switching. Discuss the types of switching techniques in detail.	12M
Q.4(A)	i. Define socket. State the role of port number and IP address.	4M
	ii. Provide TCP header format and explain each header field in detail.	8M
	OR	
Q.4(B)	i) Write short notes on SMTP and FTP.	6M
	ii) Describe TCP protocol with its header fields in detail.	6M
Q.5(A)	Explain Substitution and Transposition Cipher functionalities in detail.	12M
	OR	
Q.5(B)	i. State the different types of attacks.	4M
	ii. Demonstrate the DES in detail.	8M

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