

Hall Ticket No:

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Question Paper Code: 16MCA407

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

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

(Regulations: R16)

COMPUTER NETWORKS

Time: 3Hrs

Max Marks: 50

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) Define Computer Networks. 2M
Compare the OSI model and TCP/IP model. 8M
OR
- Q.1(B) State the importance of addressing in Network architecture. 2M
Illustrate the functionality of TCP/IP model. 8M
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- Q.2(A) Define Multiplexing in data communication. 2M
Describe the Circuit Switching, Packet Switching and ATM in detail. 8M
OR
- Q.2(B) Define Noise and Interference. 2M
Elaborate the transmission medium available for data communication. 8M
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- Q.3(A) Define Wi-fi and Wi-Max. 2M
Describe the Ethernet and its types in detail. 8M
OR
- Q.3(B) Explain the routing protocols available for data communication 10M
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- Q.4(A) State the importance of ping command. 2M
Demonstrate the DNS operations and protocols involved in it. 8M
OR
- Q.4(B) Differentiate the Unicast and Multicast.(02) 2M
Discuss about the Network Management protocols and its working nature.(08) 8M
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- Q.5(A) Examine the IPSec (IP SECURITY) functionalities in detail, 10M
OR
- Q.5(B) Demonstrate the functionalities of Firewall and its types. 10M

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