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Reg. No.

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
MCA II Year I Semester (R16) Regular Examinations Nov 2017
COMPUTER NETWORKS**

Time: 3 hours

Max. Marks:60

(Answer all Five Units 5 X 12 = 60 Marks)

UNIT-I

1 Explain the TCP/IP model with the functionalities of each layer in detail. 12M

OR

2 a Explain the functioning of slotted ALOHA. 6M

b Prove that probability of successful packet delivery in slotted ALOHA is 36-37%. 6M

UNIT-II

3 Explain the distance vector routing algorithm with suitable example. 12M

OR

4 a What is load shedding? Explain it using an example. 6M

b Explain the prevention policies of congestion. 6M

UNIT-III

5 a Explain the working of Mobile IP. 6M

b Explain the concept of tunneling and how it is used. 6M

OR

6 Explain the OSPF in detail. 12M

UNIT-IV

7 Explain in detail three way handshaking for connection establishment in TCP. 12M

OR

8 a Write a detailed note on transport service primitives. 6M

b Give brief description about the flow control and buffering. 6M

UNIT-V

9 Briefly discuss RSA algorithm. 12M

OR

10 Explain the substitution and transposition ciphers along with examples. 12M

***** END *****