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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**M.Tech I Year I Semester (R16) Regular Examinations January 2017****ADVANCED COMPUTER NETWORKS**

(Computer Science Engineering)

(For Students admitted in 2016 only)

Time: **3 hours**Max. Marks: **60**(Answer all Five Units **5 X 12 =60** Marks)**UNIT-I**

- Q.1** a. What are some of the physical media the Ethernet can run over? 6M
b. What advantage does a circuit switched network have over packet switched network 6M

OR

- Q.2** a. What are networking devices? Explain briefly? 6M
b. With the help of a diagram briefly explain about virtual circuit networks? 6M

UNIT-II

- Q.3** a. Briefly explain about node instability problem in distance vector routing? 6M
b. What is a network mask? With the help of an example explain network mask? 6M

OR

- Q.4** a. Explain about classful addressing in IPv4? 6M
b. Explain about tree based multicast algorithm? 6M

UNIT-III

- Q.5** a. Explain Infrastructure of wireless networks? 6M
b. Write short notes on VoIP and Multimedia Networking? 6M

OR

- Q.6** a. Explain about DCF Algorithm of IEEE 802.11 MAC Layer? 6M
b. Explain briefly about tunneling with an example? 6M

UNIT-IV

- Q.7** a. What are the services required for a transport protocol to make use of network application? 6M
b. Why we build an application over UDP rather than TCP. List out the reasons? 6M

OR

- Q.8** a. With the help of neat diagram explain about HTTP Request-Response Mechanism? 6M
b. Explain about Three-way hand-shake procedure used in TCP connection management? 6M

UNIT-V

- Q.9** a. Classify various routing protocols in Ad-Hoc networks? 6M
b. Explain about Wireless Routing Protocol? 6M

OR

- Q.10** a. Briefly explain about Wireless Ad-hoc networks? 6M
b. Discuss about TORA and ABR in detail? 6M

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