

Reg. No. :

--	--	--	--	--	--	--	--	--	--

Question Paper Code: 95Q10

M.E. DEGREE EXAMINATION, JAN 2020

Elective

Communication Systems

15PCM510 – HIGH PERFORMANCE COMMUNICATION NETWORK

(Regulation 2019)

Duration: One hour

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. What is the type of network in which the routers themselves are mobile? CO1- R
(a) WAN (b) Mobile Adhoc Network
(c) Mobile network (d) Local Area Network
2. What is the routing algorithm used in MANETs? CO1- R
(a) Shortest path first
(b) Routing Information protocol
(c) Distance vector protocol
(d) Ad hoc On demand Distance vector protocol
3. SONET/SDH is a synchronous network using CO2- R
(a) TDM multiplexing (b) CDMA multiplexing
(c) TDM demultiplexing (d) CDMA demultiplexing
4. Wifi stand for____. CO2- R
(a) wireless function (b) wireless fidelity
(c) wireless functioning (d) none of above
5. Which of the statement is true about signal/noise or SNR? CO3- R

- (a) This is a signal that sends noise in a building
- (b) This is what means the quality of the transmission of information in relation to parasites
- (c) It is a calculation that determines who makes the most noise in the Office 4001
- (d) Non-servo
6. Which of the following modulation schemes is supported by WiMAX? CO3- R
- (a) binary phase shift keying modulation
- (b) quadrature phase shift keying modulation
- (c) quadrature amplitude modulation
- (d) all of the mentioned
7. WiMAX MAC layer provides an interface between _____ CO4- R
- (a) higher transport layers and physical layer (b) application layer and network layer
- (c) data link layer and network layer (d) session layer and application layer
8. The type of signaling that have the same circuit and is used for both signaling and voice communication is called CO4- R
- (a) outband (b) in band
- (c) signal transport ports (d) signal points
9. The cable modem for data transmission is similar to CO5- R
- (a) high bit rate digital subscriber (b) asymmetric DSL modem
- (c) very high bit rate digital subscriber line (d) asymmetric DSL lite Modem
10. Trusted TCP/IP commands have the same needs & go through the identical verification process. Which of them is not a TCP/IP command? CO5- R
- (a) ftp (b) rexec (c) tcpexec (d) telnet

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. What is coordination and cooperation among multiple nodes in wireless network? why and when we need them? CO1- U (8)
12. How to design mathematical model for Packet Relaying in Multi-Hop Networks CO2- U (8)
13. Which TCP/IP transport protocol do you think should be used if you have no faith in hardware .Why? CO3- U (8)
14. Briefly explain an overview of LTE and LTE- A and comparison with the broadband technologies CO4- U (8)
15. Describe an overview of WiFi and how it can be simulated? CO5- U (8)