

University of Mumbai

Examinations Commencing from 7th January 2021 to 20th January 2021

Curriculum Scheme: Rev2016

Examination: TE Semester V

Course Code: CSC503 and Course Name: Computer Networks

Time: 2 hour

Max. Marks: 80

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Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
Q1.	Communication channel is shared by all the machines on the network in
Option A:	Point to point
Option B:	unicast network
Option C:	multicast network
Option D:	broadcast network
Q2.	Data communication system spanning states, countries, or the whole world is
Option A:	LAN
Option B:	WAN
Option C:	MAN
Option D:	standalone machine
Q3.	Which layer is responsible for process to process delivery?
Option A:	network layer
Option B:	transport layer
Option C:	session layer
Option D:	data link layer
Q4.	In this topology there is a central controller or hub
Option A:	Star
Option B:	Mesh
Option C:	Ring
Option D:	Bus
Q5.	Which transmission media has the highest transmission speed in a network?
Option A:	coaxial cable
Option B:	twisted pair cable
Option C:	optical fiber

Option D:	electrical cable
Q6.	The physical layer translates logical communication requests from the _____ into hardware specific operations.
Option A:	data link layer
Option B:	network layer
Option C:	transport layer
Option D:	application layer
Q7.	Wireless transmission can be done via
Option A:	Twisted Pair Cable
Option B:	Coaxial cable
Option C:	Infrared
Option D:	fiber optic cable
Q8.	In the _____ Protocol, the sender sends one frame, stops until it receives confirmation from the receiver, and then sends the next frame.
Option A:	Stop-and-Wait
Option B:	Simplest
Option C:	Go-Back-N ARQ
Option D:	Selective-Repeat ARQ
Q9.	Header of a frame generally contains
Option A:	Error Control Code
Option B:	addresses
Option C:	actual Data
Option D:	block number
Q10.	When 2 or more bits in a data unit has been changed during the transmission, the error is called____
Option A:	random error
Option B:	burst error
Option C:	inverted error
Option D:	one bit error
Q11.	Copper wire is an example of ?
Option A:	Guided Transmission Media
Option B:	Unguided Transmission Media
Option C:	Group Media
Option D:	Protocols
Q12.	A 4 byte IP address consists of _____

Option A:	only network address
Option B:	only host address
Option C:	network address & host address
Option D:	network address & MAC address
Q13.	The ability of a single network to span multiple physical networks is known as _____
Option A:	Subnetting
Option B:	Masking
Option C:	Fragmenting
Option D:	Hopping
Q14.	Which one of the following is not a function of network layer?
Option A:	routing
Option B:	inter-networking
Option C:	congestion control
Option D:	error control
Q15.	ICMP is primarily used for _____
Option A:	error and diagnostic functions
Option B:	addressing
Option C:	forwarding
Option D:	routing
Q16.	UDP packets are called as _____
Option A:	Segments
Option B:	Checksum
Option C:	Frames
Option D:	Datagrams
Q17.	_____ does not provide reliable end to end communication.
Option A:	TCP
Option B:	UDP
Option C:	Both TCP and UDP
Option D:	Neither TCP nor UDP
Q18.	Which of the following system calls results in the sending of SYN packets?

Option A:	socket
Option B:	bind
Option C:	listen
Option D:	connect
Q19.	Which one of the following allows a user at one site to establish a connection to another site and then pass keystrokes from local host to remote host?
Option A:	HTTP
Option B:	FTP
Option C:	Telnet
Option D:	TCP
Q20.	Which one of the following protocol delivers/stores mail to receiver server?
Option A:	simple mail transfer protocol
Option B:	post office protocol
Option C:	Internet mail access protocol
Option D:	hypertext transfer protocol

Q2	Solve any Two Questions out of Three	10 marks each
A	Draw the OSI reference model and explain the functions of different layers.	
B	Compare twisted, co-axial and fiber optic cable.	
C	Explain sliding window protocol using go-back N technique.	

Q3	Solve any Two Questions out of Three	10 marks each
A	What are the different types of routing Algorithm? Explain any one in detail.	
B	What is the function of IP protocol? Discuss its header format.	
C	Explain how TCP Controls congestion.	