University of Mumbai
Examination 2020

Program: Computer Engineering
Curriculum Scheme: Rev2016
Examination: TE Semester V
Course Code: CSC503 and Course Name: Computer network

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
1.	The ability of a single network to span multiple physical networks is known as
Option A:	Subnetting
Option B:	Masking
Option C:	Hopping
Option D:	Fragmenting
2.	ICMP is primarily used for _____
Option A:	addressing
Option B:	routing
Option C:	forwarding
Option D:	Error and query functions
3.	The IPV4 header size is
Option A:	Is 20 to 60 byte long
Option B:	Its depend upon MTU
Option C:	It's always 20 bit long
Option D:	It's always 60 bit long
4.	Which of the following are transport layer protocols used in networking?
Option A:	TCP and FTP
Option B:	TCP and UDP
Option C:	HTTP and TCP
Option D:	UDP and FTP
5.	Buffer overrun can be reduced by using what?
Option A:	Traffic control
Option B:	Flow control
Option C:	Byte orientation
Option D:	Data integrity
6.	The technique of _____ refers a congestion control mechanism in which a congested node stop receiving the data from the immediate upstream node.
Option A:	Back pressure
Option B:	Choke packet
Option C:	Implicit
Option D:	Explicit
7.	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:	SMTP
8.	A DNS client is called _____
Option A:	DNS updater
Option B:	DNS resolver
Option C:	DNS handler
Option D:	DNS Manager
9.	When the mail server sends mail to other mail servers it becomes _____
Option A:	SMTP server
Option B:	Peer
Option C:	Master
Option D:	SMTP client
10.	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
11.	"Parity bits" are used for which of the following purposes?
Option A:	Encryption of data
Option B:	To transmit faster
Option C:	To detect errors
Option D:	To identify the user
12.	A single channel is shared by multiple signals by _____
Option A:	analog modulation
Option B:	digital modulation
Option C:	multiplexing
Option D:	phase modulation
13.	Which of the following is the multiple access protocol for channel access control?
Option A:	CSMA/CD
Option B:	CSMA/CA
Option C:	Both CSMA/CD & CSMA/CA
Option D:	HDLC
14.	Which of the following address belongs class A?
Option A:	121.12.12.248
Option B:	130.12.12.248
Option C:	128.12.12.248
Option D:	129.12.12.248
15.	The term IANA stands for?
Option A:	Internet Assigned Numbers Authority
Option B:	Internal Assigned Numbers Authoritative

Option C:	Internet Associative Numbers Authoritative
Option D:	Internal Associative Numbers Authority
16.	Which of the following is true with regard to the ping command?
Option A:	Ping stands for Packet Internet Generator.
Option B:	The ping command checks the port level connectivity between source destinations end points.
Option C:	Ping summarizes the packet loss and round-trip delay between two IP end points.
Option D:	The ping command activates the RARP protocol of the IP layer.
17.	A local telephone network is an example of a _____ network.
Option A:	Packet switched
Option B:	Circuit switched
Option C:	Bit switched
Option D:	Line switched
18.	In OSI model, when data is sent from device A to device B, the 5th layer to receive data at B is
Option A:	Application layer
Option B:	Transport layer
Option C:	Link layer
Option D:	Session layer
19.	CSMA is based on medium called
Option A:	Listen before talk
Option B:	Listen before sending
Option C:	Sense before transmit
Option D:	Sense before collision
20.	There is no reflection until angle of incidence is greater than _____ angle.
Option A:	Critical
Option B:	Refractive
Option C:	Vertical
Option D:	Horizontal

Q2 (10 Marks Each)	Solve any Two Questions out of Three
A	Explain sliding window protocol using Go back n techniques.
B	What is function of IP protocol? Explain the header format.
C	What are the transport service primitives?

Q3. (10 Marks Each)	Solve any Two Questions out of Three
A	Explain CSMA protocol. Explain how collision handled in CSMA/CA?
B	Explain open loop and close loop congestion policies.
C	Explain the need of DNS protocol and describe the protocol learning.