===

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	HTTP uses which TCP port
Option A:	51
Option B:	80
Option C:	82
Option D:	25
2.	In the _____ method, after the station finds the line idle, it sends its frame immediately and if the line is not idle, it continuously senses the line until it finds it idle.
Option A:	p-persistent
Option B:	non-persistent
Option C:	1-persistent
Option D:	N persistent
3.	FTP stands for_____
Option A:	File Transfer Protocol
Option B:	File Testing Protocol
Option C:	File Taking Protocol
Option D:	None of above
4.	_____ is a communication protocol for mail servers to transmit email over the Internet.
Option A:	SNMP
Option B:	SMTP
Option C:	FTP
Option D:	DHCP
5.	_____allows you to connect and login to a remote computer
Option A:	FTP
Option B:	HTTP
Option C:	SMTP
Option D:	Telnet
6.	Which of the following is Sliding Window ARQ protocol?
Option A:	Go-Back-n
Option B:	Pure Aloha

Option C:	Stop and wait
Option D:	SNMP
7.	What is maximum throughput of pure ALOHA?
Option A:	36.8 %
Option B:	18.4 %
Option C:	12.2%
Option D:	12.8%
8.	CRC stands for _____
Option A:	code repeat check
Option B:	cyclic redundancy check
Option C:	code redundancy check
Option D:	cyclic repeat check
9.	A _____ is a TCP name for a transport service access point.
Option A:	Pipe
Option B:	Node
Option C:	Port
Option D:	Protocol
10.	Transport layer aggregates data from different applications into a single stream before passing it to _____
Option A:	Network
Option B:	Datalink
Option C:	Physical
Option D:	Application
11.	Which protocol is used to discover the hardware address of a node if IP address is known?
Option A:	CIDR
Option B:	RARP
Option C:	Subnet mask
Option D:	ARP
12.	ICMP stands for _____
Option A:	Internally Controlled Message Port
Option B:	Internet Count Message Protocol
Option C:	Internal Control Message Protocol
Option D:	Internet Control Message Protocol
13.	_____is a mechanism to control the amount and rate of the traffic sent to the network.
Option A:	Traffic congestion
Option B:	Traffic control
Option C:	Traffic shaping
Option D:	Traffic flow

14.	How much is the maximum throughput for slotted ALOHA ?
Option A:	36.8
Option B:	18.4
Option C:	12.2
Option D:	20.8
15.	Socket-style API for windows is called _____
Option A:	wsock
Option B:	Sockwi
Option C:	wins
Option D:	Winsock
16.	Which type of routing is based on global knowledge that is the knowledge about entire network.
Option A:	Link State Routing
Option B:	Distance Vector Routing
Option C:	Trivial File Transfer Protocol
Option D:	Border Gateway Protocol
17.	OSI model has _____ Layers
Option A:	4
Option B:	5
Option C:	7
Option D:	6
18.	Dividing large network into several small networks is called _____
Option A:	Supernetting
Option B:	Subnetting
Option C:	Sections
Option D:	Small networks
19.	IP address 110.200.125.135 is of which class
Option A:	Class B
Option B:	Class D
Option C:	Class C
Option D:	Class A
20.	IP is _____ Protocol
Option A:	Connection less
Option B:	Connection Oriented
Option C:	Both Connection Oriented and Connection less
Option D:	None of above

Q2 . (20 Marks)	Solve any Four out of Six 5 marks each *Please delete the instruction shown in front of every sub question*
A	Draw and Explain OSI Layers with neat diagram.
B	Explain CSMA/CD in detail.
C	Explain Leaky bucket algorithm with neat diagram.
D	What is open loop and closed loop congestion control. Explain in detail.
E	What is socket? Write socket program showing client and server communication.
F	Differentiate between connection oriented and connection less services.

Q3. (20 Marks)	Solve any Two Questions out of Three 10 marks each
A	Explain Pure Aloha and Slotted Aloha in detail.
B	Explain Distance Vector Routing with Proper Example.
C	Explain various Network Hardware Components in detail.