United College of Engineering and Research, Allahabad

Department of Computer Science & Engineering

B.Tech CSE- VI Semester

Set-4

	Course Name: Computer Network	AKTU Course Code: KCS-603
1.	Transport layer aggregates data from different applications in to a) network layer b) data link layer c) application layer d) physical layer	to a single stream before passing it
2.	Which of the following are transport layer protocols used in no a) TCP and FTP b) UDP and HTTP c) TCP and UDP d) HTTP and FTP	etworking?
3.	User datagram protocol is called connectionless because a) all UDP packets are treated independently by transport layer b) it sends data as a stream of related packets c) it is received in the same order as sent order d) it sends data very quickly	
4.	Transmission control protocol a) is a connection-oriented protocol b) uses a three way handshake to establish a connection c) receives data from application as a single stream d) all of the mentioned	
5.	An endpoint of an inter-process communication flow across a a) socket b) pipe c) port d) machine	computer network is called
6.	Socket-style API for windows is called	

b) winsock

	c) wins d) sockwi
7.	Which one of the following is a version of UDP with congestion control? a) datagram congestion control protocol b) stream control transmission protocol c) structured stream transport d) user congestion control protocol
8.	Transport layer protocols deals with a) application to application communication b) process to process communication c) node to node communication d) man to man communication
9.	Which of the following is a transport layer protocol? a) stream control transmission protocol b) internet control message protocol c) neighbor discovery protocol d) dynamic host configuration protocol
10.	What are the functions of the transport layer? a) Multiplexing/ Demultiplexing b) Connection less Services c) Connection oriented service d) Congestion control
11.	Which services are provided by transport layer? a) Error control b) Connection oriented service c) Connection less service d) Congestion control
12.	TCP and UDP are called a) Application protocols b) Session protocols c) Transport protocols d) Network protocols
13.	does not provide reliable end to end communication. a) TCP b) UDP c) Both TCP and UDP d) Neither TCP nor UDP
14.	Two broad categories of congestion control are a) Open-loop and Closed-loop b) Open-control and Closed-control

	c) Active control and Passive control d) Active loop and Passive loop
15.	In open-loop control, policies are applied to a) Remove after congestion occurs b) Remove after sometime c) Prevent before congestion occurs d) Prevent before sending packets
16.	Retransmission of packets must not be done when a) Packet is lost b) Packet is corrupted c) Packet is needed d) Packet is error-free
17.	In Go-Back-N window, when the timer of the packet times out, several packets have to be resent even some may have arrived safe. Whereas in Selective Repeat window, the sender resends
	a) Packet which are not lost b) Only those packets which are lost or corrupted c) Packet from starting d) All the packets
18.	Discarding policy is mainly done by a) Sender b) Receiver c) Router d) Switch
19.	Closed-Loop control mechanisms try to a) Remove after congestion occurs b) Remove after sometime c) Prevent before congestion occurs d) Prevent before sending packets
20.	The technique in which a congested node stops receiving data from the immediate upstream node or nodes is called as a) Admission policy b) Backpressure c) Forward signaling d) Backward signaling
21.	Backpressure technique can be applied only to a) Congestion networks b) Closed circuit networks c) Open circuit networks d) Virtual circuit networks

22.	a) Explid b) Disca c) Chok	ard					
23.	. In the slow-start algorithm, the size of the congestion window increases until it reaches a threshold a) Exponentially b)Additively c) Multiplicatively d) Suddenly						
24.	The toka. b. c. d.	en bucket can easily be implemented with a counter, initialized by 0 1 -1 -2					
25.	a. b.	estion, to define the maximum data rate of the traffic we use Average Data Packet Peak Data Rate Packet Data Rate Average Data Rate					
26.	reaches a. b.	low-start algorithm, the size of the congestion window increases exponentially until it of the congestion window increases exponenti					
27.	_	estion, the maximum burst size normally refers to the maximum length of time the sign generated at the Average Rate Packet Rate Protocol Rate Peak Rate					
28.	In QoS fa. b. c. d.	techniques, packets wait in a buffer (queue) until the node is ready to process them in Out-of-Order Ones Fist-in First out Last-in First-Out First-in-Last-out					
29.	A leaky	bucket algorithm shapes bursty traffic into fixed-rate traffic by averaging the					

Average Rate

b.

	c.	Traffic Rate				
	d.	Traffic Shaping				
30.	In the _	traffic model, the data rate changes suddenly in a very short time.				
	a.	constant bit rate				
	b.	variable bit rate				
	C.	bursty				
	d.	none of the above				
31.	Conges	tion in a network or internetwork occurs because routers and switches have				
	a.	tables				
	b.	queues				
	C.	crosspoints				
	d.	none of the above				
32.	In a network, when the load is much less than the capacity of the network, the delay is					
	a.	at a maximum				
	b.	at a minimum				
	C.	constant				
	d.	none of the above				
33.	In a network, when the load reaches the network capacity, the delay					
	a.	increases sharply				
	b.	decreases sharply				
	c.	remains constant				
	d.	cannot be predicted				
34.	In a net	work, when the load is below the capacity of the network, the throughput				
	a.	increases sharply				
	b.	increases proportionally with the load				
	c.	declines sharply				
	d.	declines proportionally with the load				
35.	In	congestion control, policies are applied to prevent congestion before it happens.				
	a.	open-loop				
	b.	closed-loop				
	c.	either (a) or (b)				
	d.	neither (a) nor (b)				
36.	In OSI n	nodel ICMP belongs to which layer ?				
	A) Tran	sport Layer.				
	B) Data Link Layer.					
	C) Internet Layer.					
	D) Network Layer.					

37. Which protocol used for e-mail ?	
A) ICMP.	
B) SNMP.	
C) SMTP.	
D) RIP.	
38. Which of the following IP addresses can be used as (a) loop-back addresses?	
a) 0.0.0.0	
b) 127.0.0.1	
c) 255.255.255	
d) 0.255.255.255	
39. An Aloha network uses an 18.2 kbps channel for sending message packets of 100 bits long size. Calculate the maximum throughput.	
a) 5999	
b) 6900	
c) 6027	
d) 5027	
40. Which of the following is true with regard to the ping command?	
a) Ping stands for Packet Internet Generator.	
b) The ping command checks the port level connectivity between source destinations	
end points.	
c) Ping summarizes the packet loss and round-trip delay between two IP end points.	
d) The ping command activates the RARP protocol of the IP layer.	
41. What is the maximum efficiency of pure aloha at $G = 1/2$?	
a) 1.89	
b) 17.99	
c) 18.999	
d) 18.4	
42. What is the maximum efficiency of slotted aloha at $G = 1$?	
a) 36.8	
b) 35.8	
c) 35.5	
d) 37.8	
43. Which of the following servers allows LAN users to share data?	
a) Data server	
b) Point server	

c) File server

d) Communication server

1 (What is the total vulnerable time value of pure Aloha? a) T_{fr} b) $1/2 T_{fr}$ c) $2 *T_{fr}$ d) $4 *T_{fr}$
1 (Which of the following layers does the HTTP protocol work on? a) Physical layer b) Data-link layer c) Application layer d) None of the these
1 (What is the size of the destination port in the UDP protocol? a) 8 bits b) 16 bits c) 20 bits d) 32 bits
6 1 0	What network utility uses the time-To-Live (TTL) field in the IP header to elicit ICMP error messages? a) Ping b) Route c) Traceroute d) Ifconfig
8 1	What is the size of the UDP header? a) 8 bytes b) 16 bytes c) 20 bytes d) 64 bytes
1 (Which of the following protocols is the connection-less protocol? a) UDP b) TCP c) IP d) All of the these
1 (Which of the following devices is not a networking device? a) Hub b) Switch c) Bridge d) None of the these

Answer

1- a	2- c	3- a	4- d	5- a	6- b	7- a	8- b	9- a	10- с
11- b	12- c	13- b	14- a	15- с	16- d	17- b	18- с	19- a	20- b
21- d	22- c	23- a	24- a	25- b	26- с	27- d	28- b	29- a	30- c
31- b	32- b	33- a	34- b	35- a	36- d	37- с	38- b	39- с	40- с
41- d	42- a	43- с	44- с	45- c	46- b	47- с	48- с	49- a	50- d