Computer Networks: Sheet 1
HUB is a device and switch is a device. a) multicast,unicast b) multicast,broadcast c) broadcast,unicast d) broadcast,multicast
2. What is the binary equivalent of the number 368 base 10? a) 111100000 b) 111010000 c) 101110000 d) 110110000
Which of the OSI model is responsible for compression and decompression? a) Presentation layer b)Ttransport layer c) Application layer d) Session layer
4. Which of the OSI model layer is also known as end-to-end layer?a) session layerb) presentation layerc) Transport layerd) Network layer
5. Which of the following services use TCP? 1.DHCP 2.SMTP 3.HTTP 4.TFTP 5.FTP a) 1,2 b) 1,3,4 c) 2,3,5 d) 1,2,3,5
6. You want to implement a mechanism that automates the IP configuration, including IP address, subnet mask, default gateway, and DNS information. Which protocol will you use to accomplish this? a) RARP b) SNMP c) DHCP d) ARP
 Which of the following describe the DHCP Discover message? It uses FF:FF:FF:FF:FF as a layer 2 broadcast. It uses UDP as the Transport layer protocol. It uses TCP as the Transport layer protocol. It does not use a layer 2 destination address. 1, 2 1, 4 2, 4 3, 4
8. Which of the following allows a router to respond to an ARP request that is intended for a remote host? a) Gateway b) Reverse ARP c) Proxy ARP d) Inverse ARP
9. Which class of IP address provides a maximum of only 254 host addresses per network ID? a) Class A b) Class B c) Class C d) Class D
 Which statements are true regarding ICMP packets? They acknowledge receipt of a TCP segment. They guarantee datagram delivery. They can provide hosts with information about network problems. They are encapsulated within IP datagrams. 1, 2 2, 3 3, 4 4, 3
11. What protocol is used to find the hardware address of a local device? a) ARP b) RARP c) IP d) ICMP
12. What is the address range of a Class B network address in binary? a) 01xxxxxx b) 10xxxxxx c) 11xxxxxx d) 110xxxxx
13. In networking terminology UTP means: a) Unshielded Twisted Pair b) Ubiquitious Teflon port c)Uniformly Terminating port d) Unshielded T-connector port

14. How ma packets?	ny acknowledg	gements are ne	eded in stop-and	d-wait flow control protocol to sen	ıd n
a) 2n -1	b) n-1	c) 2n	d) n		
15. Which of a) in-service c) both (a) a	expansion	b) unl	oken passing bu imited number o imited distance		
16. Working a) telephone	•	nerally involves nicro waves	c) satellites	d) all of these	
17. Maximur a) 100,2000,	•	for twisted pair 100,200,500	r, fibre optics and c) 2000,500,1		
18. Unmodu a) carrier sig			nsmitter is knowr c) primary singal	n as: d) None of these	
19. Frequenc a) 106 to 108	, ,		xial cables are u c) 103 to 104 H	· · · · · · · · · · · · · · · · · · ·	
20. The mon a) 802.3	itor station in w b) 802.5	vhat standard ei c) Both (a) ar		and only one token is circulating? fthese	
a) Examinati	on of the desti	Foken Ring stati nation address he next station		eneration of the frame f these	
a) Transmiss	the following is sion and receip nd subtraction		b) Che	cking of line voltages sion detection	
23. Which of a) NIC	the given belo b) MAU	w houses the s c) Nine-pin c	switches in Toker onnector	n Ring ? d) Transceiver	
24. To interfa a) RS 424 - <i>i</i>		r terminal with a S 232 - C	•	ed physical layer standard is d) Either (b) or (c)	
		ns at the T1 da its is in the cabl c) 772		pagation speed in the cable is half	the
26. How mud a) 20,000 GH		there in 0.1 mic ,000 GHz	ron of spectrum c) 30,000 GHz	at a wavelength of 1 micron? d) None of these	
27. How ma		ne network use	er Address are	known as the DNIC (Data Netw	ork/
a) First three	,	st four	c) First five	d) First seven	
28. How mar a) First three		DNICC (Data N st four	letwork Identiicat c) First five	tion Code) identify the country ? d) First six	
29. Which of ?	the following of	digits are knowr	as the area coo	de of the network user address (N	UA)
a) 5-7	b) 1-4	c) 8-12	d) 13-14		

30. Which of address?	f the following	digits are kn	own as the ter	minal number of the network user	
a) 5-7	b) 1-4	c) 8-12	d) 13-14		
	are used for p work. What is tl b) 8			a sliding window protocol used in a	
32. Slotted Al a) divide time c) both (a) an	into discrete in	tervals	b) require globa d) none of thes	al time synchronization e	
33. In the carrier sense network, if prevailing condition is a 'channel busy', then technique used is: a) non-persistent then it results in randomised wait and sense b) 1-persistent then the channel is continually sensed c) p-persistent then randomised retransmission is done d) both (a) and (b)					
	ere are no self-		lines in a cross d) 28	point switch which is full duplex in	
	aced on the ch			ed is 200 b/ms, then number of bits d) none of these	
36. In which ARQ, when a NAK is received, all frame sent since the last frame acknowledged an retransmitted: a) stop-and-wait b) go-back-n c) selective-reject d) both (a) and (b)					
a) within each	or dynamic dire n user session generation time		packet routing change b) with each us d) none of thes	er session	
38. Maximum a) 75,000 bps		channel of 300 000 bps	0 Hz bandwidth a c) 30,000 bps	and SNR of 30 dB is: d) 3,000 bps	
	z bandwidth no ne maximum da b) 00 kbps			a signal to thermal noise ratio of 30	
40. In stop-ar a) NAK 0	nd-wait ARQ, if b) NAK 1	data 1 has an c) NAK 2	error, then receiv d) NAK	rer sends which frame ?	
		•		ermine control of the line ? imary-to-secondary	
42. The seco following ever a) ACK	•	a multipoint o	configuration sen	ds data in response to which of the	

43. For stop- needed?	and-wait	flow cont	rol, for n	data packets sent, l	how many acknowledgments are
a) n	b) n-1	c)	2n	d) n + 1	
44. In a cross a) 100	bar with b) 250		spoints, ho 500	w many statistically d) 1000	are in use at any time?
45. Which of the following decides the role (sender or receiver) of a device on a network ? a) Line connection b) Link connection c) Line discipline d) Link decision					
46. A terminal multiplexer has six 1200 bps terminals and (rf 300 bps terminals connected to it. The outgoing line is 9600 bps. What is the maximum value of n? a) 4 b) 16 c) 8 d) 28					
47. Maximum a) 32 kbps		e of a nois b) 56 kbps		z channel using T1 c) 80 kbps	PCM system is: d) 24 kbps
48. Poll/select a) Timer		cipline req b) Buffer	uires what	to identify the packe c) Address	et recipient ? d) Dedicated line
49. For a slid many frames a) 0	•		/ledged ?	sequence numbers) d) n +1	, there can be maximum of how
50. How man a) 40	y crosspo b) 90		eeded in a 50	single-stage switch d) 2000	with 40 inputs and 50 outputs?
51. The number nature and the a) 100		o self con			point switch which is full duplex in
52. Two networks each provide reliable connection-oriented service. One of them offers a reliable byte stream and the other offers a reliable message stream. A process writes 1024 bytes, then:					
a) both networks will receive 2048 bytes as a single unitb) message stream network will receive 1024 bytes only at one time. But byte stream network will receive 2048 bytes as a single unit.					
c) message s at a time.	stream ne	etwork rec	eives 2048	•	But bytes stream 1024 bytes only
d) both will receive 1024 bytes at one time since there is a gap between writes.					
53. A noisele data rate?	ess 3 kH:	z channel	transmits	bits with binary leve	el signals. What is the maximum
a) 3 kbps		b) 6 kbps		c) 12 kbps	d) 24 kbps
54. A bridge ha) Physical		ss to which b) Networ		of a station on the sarvice access point	ame network ? d) All of these
55. Unmodulated signal coming from a transmitter is known as: a) carrier signal b) baseband signal c) primary singal d) None of these					
56. Bit stuffing refers to: a) inserting a '0' in user stream to differentiate it with a tag					

b) inserting a '0' in lag stream to avoid ambiguityc) appending a nibble to the lag sequenced) appending a nibble to the use data stream				
57. What uses a physical star topology? a) 10 base 5 b) 10 base 2 c) 10 base T d) None of these				
58. In Token Ring, when a frame reaches its destination station, then a) message is copied b) four bits in the packet are changed c) message is taken of the ring and replaced by the token d) both (a) and (b)				
 59. Which of the following is not a transceiver function? a) Transmission and receipt of data b) Checking of line voltages c) Addition and subtraction of headers d) Collision detection 				
60. Ether LAN uses: a) polar encoding b) diferential manchester encoding c) manchester encoding d) NRZ				
61. Which of the following uses an 8B/6T encoding scheme? a) 100 Base-TX b) 100 Base-FX c) 100 Base-T4 d) 100 Base-T1				
62. The station-to-hub distance in which of the following is 2000 meters? a) 100 Base-TX b) 100 Base-FX c) 100 Base - T4 d) 100 Base - T1				
63. In which circuit switching, delivery of data is delayed because data must be stored and retrieved from RAM : a) space-division b) time-division c) virtual d) packet				
 64. Establishing a virtual connection is virtually equivalent to: a) placing a telephone call prior to a conversion b) connecting as virtual memory c) physically connecting a DTE and DCE d) placing a modem prior to a conversion 				
65. Which of the following measures the number of lost or garbled messages as a fraction of the total sent in the sampling period ? a) Residual error rate b) Connection release failure probability c) Transfer failure probability d) Connection establishment failure probability				
Answers: 1) c. 2) c. 3) a. 4) c. 5) c. 6) c. 7) a. 8) c. 9) c. 10) c. 11) a. 12) d. 13) a. 14) d. 15) a. 16) d. 17) a. 18) b. 19) a. 20) b. 21) d. 22) c. 23) b. 24) d. 25) c. 26) c. 27) b. 28) a. 29) a. 30) c. 31) c. 32) c. 33) b. 34) b. 35) b. 36) b. 37) a. 38) c. 39) a. 40) d. 41) d. 42) c. 43) a. 44) b. 45) c. 46) c. 47) b. 48) c. 49) b. 50) d. 51) b. 52) b. 53) b. 54) a. 55) b. 56) a. 57) c. 58)d. 59) c. 60) c. 61) c. 62) b. 63) b. 64) a. 65) a.				