## **DCN-II**

## **Multiple Choice Questions & Answers:-**

1.	There are internet service providers.
	A) regional
	B) local
	C) national and international
	D) all of the above
	b) all of the above
2.	refers to the physical or logical arrangement of a network.
	A) Topology
	B) Mode of operation
	C) Data flow
	D) None of the above
3.	A is a data communication system spanning states, countries, or the whole world.
	A) MAN
	B) WAN
	C) LAN
	D) none of the above
4.	A connection provides a dedicated link between two devices.
	A) primary
	B) multipoint
	C) point-to-point
	D) secondary
5.	Which topology requires a multipoint connection?
	A) Bus
	B) Star
	C) Mesh
	D) Ring
6.	A is a set of rules that governs data communication.
	A) protocol
	B) forum
	C) standard
	D) none of the above
7.	In a connection, two and only two devices are connected by a dedicated link.
	A) multipoint
	B) point-to-point
	C) (a) and (b)
	D) none of the above

8. The information to be communicated in a data communications system is the
A) Medium
B) Protocol
C) Message
D) Transmission
9defines how a particular pattern to be interpreted, and what action is to be taken based on that interpretation.
A) Syntax
B) Semantics
C) Timing
D) None of the above
10. Frequency of failure and network recovery time after a failure are measures of the of a network.
A) Performance
B) Security
C) Reliability
D) Feasibility
11. A television broadcast is an example of transmission.
A) half-duplex
B) simplex
C) full-duplex
D) automatic
12. Data flow between two devices can occur in a way.
A) simplex
B) half-duplex C) full-duplex
D) all of the above
12 and see in list part maying that quickly tast applyate and standarding may tashingle size
13 are special-interest groups that quickly test, evaluate, and standardize new technologies.
A) Standards organizations
B) Regulatory agencies
C) Forums
D) All of the above
14. Which agency developed standards for physical connection interfaces and electronic signaling specifications?
The vince agency developed standards for physical commentors interfaces and electronic signature specifications.
A) ISO
B) ITU-T
C) ANSI
D) EIA
15. A is a data communication system within a building, plant, or campus, or between nearby buildings.

A) LAN	
B) MAN	
C) WAN	
D) none of the above	
16 refers to two characteristics: when data should be sent and how fast it can be sent.	
A) Semantics	
B) Timing	
C) Syntax	
D) none of the above	
17. This was the first network.	
A) CSNET	
B) NSFNET	,
C) ARPANET	
D) ANSNET	
18. Devices may be arranged in a topology.	
A) mesh	
B) ring	
C) bus	
D) all of the above	
19 is the protocol suite for the current Internet.	
A) UNIX	
B) NCP	
C) TCP/IP	
D) ACM	
20 is a collection of many separate networks.	
AN A WANG	
A) A WAN	
B) An internet	
C) A LAN D) None of the above	
21. In aconnection, three or more devices share a link.	
A) point-to-point B) multipoint	
C) (a) and (b)	
D) none of the above	
22. Which organization has authority over interstate and international commerce in the communicati	ons field?
A) FCC	
B) IEEE	
C) ITU-T	
D) ISOC	

23. In the original ARPANET, were directly connected together.
A) routers B) host computers C) networks D) IMPs
24. Communication between a computer and a keyboard involves transmission.
A) simplex B) half-duplex C) full-duplex D) automatic
25. Which topology requires a central controller or hub?
A) Mesh
B) Bus
C) Star
D) Ring
26. The is the physical path over which a message travels.
A) Protocol
B) Signal
C) Medium
D) All the above
27. In a connection, more than two devices can share a single link.
A) multipoint
B) point-to-point
C) primary
D) secondary
28 refers to the structure or format of the data, meaning the order in which they are presented.
A) Semantics B) Syntax C) Timing D) All of the above
29. An unauthorized user is a network issue.
A) Security B) Reliability
C) Performance
D) All the above
30 is an idea or concept that is a precursor to an Internet standard.

A) RCF

B) ]	ID .
	RFC
D)	none of the above
31. In	transmission, the channel capacity is shared by both communicating devices at all times.
A) :	simplex
B) 1	half-duplex
	full-duplex
D) 1	half-simplex
	ne TCP/IP layer is equivalent to the combined session, presentation, and application layers of the OSI
model	
	data link
	network
	physical
D)	application
26. W	hen a host on network A sends a message to a host on network B, which address does the router look at?
A)	logical
	physical
C)	port
D)	none of the above
27. As	s the data packet moves from the upper to the lower layers, headers are
A)	Rearranged
	Removed
	Added
D)	Modified
28. Tł	ne physical layer is concerned with the movement of over the physical medium.
A)	dialogs
	protocols
<b>C</b> )	bits
D)	programs
29. To	deliver a message to the correct application program running on a host, the address must be
consu	
A)	physical
	port
C) D)	IP none of the above
,	
30. Et	hernet uses a physical address that is imprinted on the network interface card (NIC).
A)	32-bit
B)	6-byte

,	64-bit none of the above
31. Th	ne layer is the layer closest to the transmission medium.
B) C)	Network Transport Physical Data link
32. Th	ne OSI model consists of layers.
<b>B</b> ) C)	eight seven five three
33. Th	the address, also known as the link address, is the address of a node as defined by its LAN or WAN.
C)	IP port specific physical
34. La	yer 2 lies between the physical layer and thelayer.
B) C)	Data link Transport Network None of the above
35. W	hy was the OSI model developed?
<b>B</b> ) C)	The rate of data transfer was increasing exponentially <b>Standards were needed to allow any two systems to communicate</b> Manufacturers disliked the TCP/IP protocol suite. None of the above
	the OSI model, as a data packet moves from the lower to the upper layers, headers are
B)	removed added rearranged modified
37. In	the OSI model, when data is transmitted from device A to device B, the header from A's layer 5 is read by B's layer.
A) B) C) D)	session physical transport presentation

38. The seven-layer model provides guidelines for the development of universally compatible networking protocols.	
A) ISO	
B) OSI	
C) IEEE	
D) none of the above	
39. The Internet model consists of layers.	
A) Eight	
B) Seven	
C) Five	
D) Three	
40. In the OSI model, what is the main function of the transport layer?	
A) process-to-process message delivery	
B) node-to-node delivery	
C) synchronization	
D) updating and maintenance of routing tables	
41 is a process-to-process protocol that adds only port addresses, checksum error control, and length	
information to the data from the upper layer.	
A) IP	
B) TCP	
C) UDP	
D) none of the above	
42. The layer establishes, maintains, and synchronizes the interactions between communicating devices.	
A) session	
B) physical	
C) transport	
D) network	
43. A port address in TCP/IP is bits long.	
A) 16	
B) 32	
C) 48	
D) none of the above	
44. In the OSI model, encryption and decryption are functions of the layer.	
A) application	
B) presentation	
C) session	
D) transport	
45. TCP/IP is a hierarchical protocol suite developed the OSI model.	

	six-layer; before
	seven-layer; before
D)	five-layer; after
46. Th	ne address, also known as the link address, is the address of a node as defined by its LAN or WAN.
	logical
	port
	physical
D)	none of the above
47. Th	ne model shows how the network functions of a computer ought to be organized.
A)	ANSI
	CCITT
	ISO
D)	OSI
	ne layer ensures interoperability between communicating devices through transformation of data into
a muti	ually agreed upon format.
A)	network
	presentation
	transport
	data link
mome	ne technique uses M different carrier frequencies that are modulated by the source signal. At one ent, the sign modulates one carrier frequency; at the next moment, the signal modulates another carrier
freque	ency.
	Paga .
	DSSS
	FHSS FDM
	TDM
2,	
49. In	synchronous TDM, for n signal sources of the same data rate, each frame contains slots.
A)	n#1
B)	n - I
(C) (D)	0 to n n
50. W	hich multiplexing technique transmits digital signals?
A)	WDM
B)	FDM
C)	TDM
D)	None of the above
51. Th	ne sharing of a medium and its link by two or more devices is called

A) five-layer; before

B)	modulation multiplexing encoding
	line discipline
	is designed to be used in wireless applications in which stations must be able to share the medium
witho	ut interception by an eavesdropper and without being subject to jamming from a malicious intruder.
A)	Multiplexing
B)	Spread spectrum
	Modulation
D)	None of the above.
53	is an analog multiplexing technique to combine optical signals.
A)	WDM
	FDM
,	TDM
D)	None of the above
54. FI	OM is antechnique.
A)	digital
B)	analog
	either (a) or (b)
D)	none of the above
55	can be applied when the bandwidth of a link (in hertz) is greater than the combined bandwidths of the
	s to be transmitted.
4.)	TDM
,	TDM FDM
	Both (a) or (b)
	Neither (a) or (b)
56. In	TDM, the transmission rate of the multiplexed path is usually the sum of the transmission rates of
the sig	gnal sources:
A)	equal to
B)	•
	greater than
	not related to
57 I	
57. In	a multiplexed system, lines share the bandwidth of link.
	1; n
	n; 1
	1; 1
(ע	n; n
58	utilization is the use of available bandwidth to achieve specific goals.

A)	Amplitude
	Frequency
	Bandwidth
	None of the above
59	is designed to use the high bandwidth capability of fiber-optic cable.
A)	WDM
	FDM
,	TDM
D)	None of the above
60. W	e can divide into two different schemes: synchronous or statistical.
A)	WDM
	TDM
	FDM
	none of the above
61. In	TDM, each input connection has an allotment in the output even if it is not sending data.
	isochronous
,	statistical
	synchronous
D)	none of the above
62. In	TDM, slots are dynamically allocated to improve bandwidth efficiency.
A)	isochronous
,	synchronous
	statistical
,	none of the above
63. Th	ne word refers to the portion of a that carries a transmission.
A \	Paradament a
	line; channel
	channel; link
	link; channel line; link
64. W	hich multiplexing technique shifts each signal to a different carrier frequency?
	FDM TDM
	Both (a) and (b)
	None of the above
65. W	hich multiplexing technique transmits analog signals?
A)	WDM
	TDM
C)	FDM
D)	(a) and (c)

66	is the set of techniques that allows the simultaneous transmission of multiple signals across a single	
data link.		
A)	Demodulating	
<b>B</b> )	Multiplexing	
	Compressing	
D)	None of the above	
67	can be achieved by using multiplexing; can be achieved by using spreading.	
A)	Privacy and antijamming; efficiency	
,	Privacy and efficiency; antijamming	
	Efficiency; privacy and antijamming	
D)	Efficiency and antijamming; privacy	
68. Th	technique expands the bandwidth of a signal by replacing each data bit with a bits.	
A)	DSSS	
B)	FHSS	
	FDM	
D)	TDM	
69	is a digital process that allows several connections to share the high bandwidth of a link.	
A)	WDM	
	TDM	
	FDM	
D)	None of the above	
70	is a digital multiplexing technique for combining several low-rate channels into one high-rate one.	
A)	WDM	
	TDM	
	FDM	
D)	None of the above	
71. In	, we combine signals from different sources to fit into a larger bandwidth.	
A)	line coding	
	block coding	
<b>C</b> )	spread spectrum	
D)	none of the above	
72. W	hich multiplexing technique involves signals composed of light beams?	
A)	WDM	
	FDM	
C)	TDM	
D)	none of the above	
73. W	hen the angle of incidence is the critical angle, the light beam bends along the interface.	

A)	less than
B)	equal to
	more than
	none of the above
- /	
74. Tr	ransmission media lie below the layer.
A)	application
B)	transport
C)	network
D)	physical
75	cable consists of an inner copper core and a second conducting outer sheath.
<b>A</b> >	Twisted sein
	Twisted-pair
	Shielded twisted-pair
	Coaxial
D)	Fiber-optic
76	consists of a central conductor and a shield.
/0	consists of a central conductor and a sineid.
Δ)	Twisted-pair
	Coaxial
	Fiber-optic
	none of the above
D)	note of the above
77	cable can carry signals of higher frequency ranges than cable.
/ / ·	cable can early signals of higher frequency ranges than cable.
4)	Coaxial; twisted-pair
	Twisted-pair; fiber-optic
	Coaxial; fiber-optic
	none of the above
D)	none of the above
78.	are used for cellular phone, satellite, and wireless LAN communications.
, 0	
A)	Radio waves
	Infrared waves
	Microwaves
	none of the above
- /	
79. Tł	ne inner core of an optical fiber is in composition.
A)	copper
	glass or plastic
	bimetallic
	liquid
80. W	hat is the major factor that makes coaxial cable less susceptible to noise than twisted-pair cable?
A)	insulating material
	inner conductor
C)	diameter of cable

D)	outer conductor
81. Si	gnals with a frequency below 2 MHz use propagation.
A)	line-of-sight
B)	
C)	ground
D)	none of the above
82. In	an optical fiber, the inner core is the cladding.
,	less dense than
	denser than
	the same density as
D)	another name for
83	cable consists of two insulated copper wires twisted together.
A)	Twisted-pair
B)	Coaxial
C)	Fiber-optic
D)	none of the above
84. In	fiber optics, the signal is waves.
A)	radio
	light
	infrared
	very low-frequency
85. Si	gnals with a frequency above 30 MHz usepropagation.
A)	line-of-sight
B)	
C)	ground
D)	none of the above
86. A	parabolic dish antenna is a(n) antenna.
A)	unidirectional
B)	bidirectional
C)	omnidirectional
D)	horn
87. A(	n) medium provides a physical conduit from one device to another.
A)	unguided
<b>B</b> )	
C)	either (a) or (b)
D)	none of the above
,	

88. \_\_\_\_\_ cable is used for voice and data communications.

B)	Twisted-pair Coaxial
	Fiber-optic none of the above
89. Si	gnals with a frequency between 2 MHz and 30 MHz use propagation.
	ground
	line-of-sight
	sky
D)	none of the above
90. Tr	ansmission media are usually categorized as
A)	determinate or indeterminate
,	fixed or unfixed
	guided or unguided
	metallic or nonmetallic
91	are used for short-range communications such as those between a PC and a peripheral device.
A)	Radio waves
,	Infrared waves
	Microwaves
	none of the above
92	media transport electromagnetic waves without the use of a physical conductor.
A)	Guided
	Unguided
	Either (a) or (b)
D)	None of the above
0.2	
	cables are composed of a glass or plastic inner core surrounded by cladding, all encased in an outside
jacket	
	Twisted-pair Coaxial
<b>C</b> )	Fiber-optic
,	none of the above
D)	none of the door.
94. W	hich of the following primarily uses guided media?
A)	radio broadcasting
,	satellite communications
	local telephone system
	cellular telephone system
05 W	hen a beam of light travels through media of two different densities, if the angle of incidence is greater than
	tical angle, occurs.
A)	refraction
	reflection
	criticism

D)	incidence
96. W	hich of the following is not a guided medium?
<b>A</b> )	fiber-optic cable
	coaxial cable
	twisted-pair cable
	atmosphere
97. M	icrowaves are
A)	omnidirectional
	bidirectional
	unidirectional
D)	none of the above
98	cables carry data signals in the form of light.
A)	Twisted-pair
	Coaxial
c)	none of the above
99. Ra	adio waves are
<b>A</b> )	unidirectional
	omnidirectional
	bidirectional
	none of the above
100. I	n a fiber-optic cable, the signal is propagated along the inner core by
	refraction
_	reflection
C)	modulation
D)	none of the above
	none of the above