

University of Mumbai
Examination 2020 under cluster 5 (APSIT)

Program: BE Information Technology

Curriculum Scheme: Revised 2016

Examination: Second Year Semester IV

Course Code: ITC402 and Course Name: Computer Networks

Time: 1-hour

Max. Marks: 50

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Note to the students: - All the Questions are compulsory and carry equal marks.

Q1.	User datagram protocol is called connectionless because _____
Option A:	all UDP packets are treated independently by transport layer
Option B:	it sends data as a stream of related packets
Option C:	it is received in the same order as sent order
Option D:	it sends data very quickly
Q2.	Which of the following are transport layer protocols used in networking?
Option A:	TCP and FTP
Option B:	UDP and HTTP
Option C:	TCP and UDP
Option D:	HTTP and FTP
Q3.	Transport layer aggregates data from different applications into a single stream before passing it to _____
Option A:	network layer
Option B:	data link layer
Option C:	application layer
Option D:	physical layer
Q4.	Which level is the network layer in the OSI model?

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Option A:	Third level
Option B:	Fourth level
Option C:	Second level
Option D:	Fifth layer
Q5.	ICMP is primarily used for _____
Option A:	error and diagnostic functions
Option B:	addressing
Option C:	forwarding
Option D:	routing
Q6.	The network layer protocol for internet is _____
Option A:	ethernet
Option B:	internet protocol
Option C:	hypertext transfer protocol
Option D:	file transfer protocol
Q7.	Which one of the following is not a function of network layer?
Option A:	routing
Option B:	inter-networking
Option C:	congestion control
Option D:	error control
Q8.	The network layer is concerned with _____ of data
Option A:	bits
Option B:	frames
Option C:	packets
Option D:	bytes

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Q9.	In _____, each station is forced to send only at the beginning of the time slot.
Option A:	pure ALOHA
Option B:	slotted ALOHA
Option C:	Impure ALOHA
Option D:	Unslotted ALOHA
Q10.	_____ assigns a unique number to each IP network adapter called the MAC address
Option A:	Media Access Control
Option B:	Metro Access Control
Option C:	Metropolitan Access Control
Option D:	Data link layer
Q11.	802.11 wireless networking uses what method as the media access method?
Option A:	CSMA/CD
Option B:	CTS/RTS
Option C:	CSMA/CA
Option D:	CSCD/CA
Q12.	What is the size of MAC Address?
Option A:	16-bits
Option B:	32-bits
Option C:	48-bits
Option D:	64-bits
Q13.	Which multiple access technique is used by IEEE 802.11 standard for wireless LAN?
Option A:	CDMA
Option B:	CDMA/CD
Option C:	CDMA/CA

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Option D:	FDMA
Q14.	The technique of temporarily delaying outgoing acknowledgements so that they can be hooked onto the next outgoing data frame is called _____
Option A:	piggybacking
Option B:	cyclic redundancy check
Option C:	fletcher's checksum
Option D:	parity check
Q15.	CRC stands for _____
Option A:	cyclic redundancy check
Option B:	code repeat check
Option C:	code redundancy check
Option D:	cyclic repeat check
Q16.	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
Q17.	The data link layer takes the packets from _____ and encapsulates them into frames for transmission.
Option A:	physical
Option B:	network
Option C:	application
Option D:	data link
Q18.	Which of the following tasks is not done by data link layer?
Option A:	framing

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Option B:	error control
Option C:	flow control
Option D:	channel coding
Q19.	The physical layer translates logical communication requests from the _____ into hardware specific operations.
Option A:	data link layer
Option B:	network layer
Option C:	transport layer
Option D:	application layer
Q20.	At the _____ layer, the data unit is transformed into corresponding electromagnetic signal
Option A:	physical
Option B:	network
Option C:	application
Option D:	data link
Q21.	Which transmission media provides the highest transmission speed in a network?
Option A:	coaxial cable
Option B:	twisted pair cable
Option C:	optical fiber
Option D:	electrical cable
Q22.	Bits can be sent over guided and unguided media as analog signal by _____
Option A:	digital modulation
Option B:	amplitude modulation
Option C:	frequency modulation
Option D:	phase modulation

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Q23.	Which layer is used to link the network support layers and user support layers?
Option A:	session layer
Option B:	data link layer
Option C:	transport layer
Option D:	network layer
Q24.	The physical layer is concerned with _____
Option A:	bit-by-bit delivery
Option B:	process to process delivery
Option C:	application to application delivery
Option D:	port to port delivery
Q25.	The number of layers in ISO OSI reference model is _____
Option A:	4
Option B:	5
Option C:	6
Option D:	7