

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2018

Subject Name : Computer Networks

Subject Code : 4TE05CNW1

Branch: B.Tech (CE,IT)

Semester : 5

Date : 21/03/2018

Time : 10:30 To 01:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1

Attempt the following questions:

(14)

- 1 Computer Network is
 - a. Collection of hardware components and computers
 - b. Interconnected by communication channels
 - c. Sharing of resources and information
 - d. All of the Above
- 2 How many layers do OSI Reference Model have?
 - a. 4
 - b. 5
 - c. 6
 - d. 7
- 3 Which of the following layer is not network support layer?
 - a. Transport Layer
 - b. Network Layers
 - c. Data link Layer
 - d. Physical Layer
- 4 DHCP is the abbreviation of
 - a. Dynamic Host Control Protocol
 - b. Dynamic Host Configuration Protocol
 - c. Dynamic Hyper Control Protocol
 - d. Dynamic Hyper Configuration Protocol
- 5 What is the address size of IPv6?
 - a. 32 bit
 - b. 64 bit
 - c. 128 bit
 - d. 256 bit
- 6 Which of the following layer of OSI model also called end-to-end layer?
 - a. Presentation layer
 - b. Network layer
 - c. Session layer
 - d. Transport layer
- 7 What is the size of MAC Address?
 - a. 16-bits



- b. 32-bits
 - c. 48-bits
 - d. 64-bits
- 8 TCP/IP model does not have _____ layer but OSI model have this layer.
- a. session layer
 - b. presentation layer
 - c. application layer
 - d. (a)&(b) both
- 9 Which layer is responsible for process to process delivery?
- a. network layer
 - b. transport layer
 - c. session layer
 - d. data link layer
- 10 The network layer protocol of internet is
- a. Ethernet
 - b. internet protocol
 - c. hypertext transfer protocol
 - d. none of the mentioned
- 11 physical layer provides
- a. mechanical specifications of electrical connectors and cables
 - b. electrical specification of transmission line signal level
 - c. specification for IR over optical fiber
 - d. all of the mentioned
- 12 Which of the following is an application layer service?
- a. Network virtual terminal
 - b. File transfer, access, and management
 - c. Mail service
 - d. All of the mentioned
- 13 The network layer concerns with
- a. Bits
 - b. Frames
 - c. packets
 - d. none of the mentioned
- 14 Application layer offers _____ service
- a. End to end
 - b. Process to process
 - c. Both of the mentioned
 - d. None of the mentioned

Attempt any four questions from Q-2 to Q-8

Q-2	Attempt all questions	(14)
1	Explain OSI Model in Brief	5
2	Discuss TCP/IP Model	5
3	Discuss Frame relay and X.25	4
Q-3	Attempt all questions	(14)
1	Write a note on Bandwidth of Physical Layer	5
2	Write a note on Maximum data rate of a signal	5



	3	Discuss Guided and unguided transmission media	4
Q-4		Attempt all questions	(14)
	1	Write a note on Framing, Error control in Data Link Layer	5
	2	Write a HDLC	5
	3	Write a note on Sliding window protocol	4
Q-5		Attempt all questions	(14)
	1	Write a note on ALOHA	5
	2	Discuss Spanning tree and bridges,	5
	3	Write a note on Virtual LANs.	4
Q-6		Attempt all questions	(14)
	1	Comparison of virtual circuit and datagram subnets in network Layer	5
	2	Discuss The Optimality principle in network layer	5
	3	Write a note in Mobile IP and IPv6	4
Q-7		Attempt all questions	(14)
	1	Discuss Connection establishment and Connection release in Transport Layer	5
	2	Discuss Multiplexing in Transport Layer	5
	3	Write a note on UDP, TCP in Transport Layer	4
Q-8		Attempt all questions	(14)
	1	Discuss DNS name space and Resource records in Application Layer	5
	2	Write a note on World Wide Web Architecture	5
	3	Discuss Electronic mail Architecture and services	4

