

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**

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
1	Explain OSI Model in Brief	<b>5</b>
2	Discuss TCP/IP Model	<b>5</b>
3	Discuss Frame relay and X.25	<b>4</b>

<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
1	Write a note on Bandwidth of Physical Layer	<b>5</b>
2	Write a note on Maximum data rate of a signal	<b>5</b>



	3	Discuss Guided and unguided transmission media	4
<b>Q-4</b>		<b>Attempt all questions</b>	<b>(14)</b>
	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
<b>Q-5</b>		<b>Attempt all questions</b>	<b>(14)</b>
	1	Write a note on ALOHA	5
	2	Discuss Spanning tree and bridges,	5
	3	Write a note on Virtual LANs.	4
<b>Q-6</b>		<b>Attempt all questions</b>	<b>(14)</b>
	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
<b>Q-7</b>		<b>Attempt all questions</b>	<b>(14)</b>
	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
<b>Q-8</b>		<b>Attempt all questions</b>	<b>(14)</b>
	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

