

Enrollment No: \_\_\_\_\_

Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Summer Examination-2018

**Subject Name : Data communication & Networking**

**Subject Code : 4CS03BNT1**

**Branch: BCA**

**Semester : 3**

**Date : 26/03/2018**

**Time : 02:30 To 05:30**

**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.

<b>Q-1</b>	<b>Attempt the following questions:</b>	<b>(14)</b>
	a) What is the full form of MAN? a. Mobile Area Network                      b. Main Address Network c. Metropolitan Area Network              d. Metropolitan Address Network	1
	b) Number of links required to connect N computers in Ring Topology is _____ a. N      b. N-1      c. N+1      d. 2(N-1)	1
	c) Router is operated on _____ layer of OSI. a. Network    b. Physical    c. Data link    d. Session	1
	d) UDP is an acronym for _____. a. User Defined Protocol                      b. UnDefined Protocol c. User Data Protocol                          d. User Datagram Protocol	1
	e) What is the size of IPv4 Address? a. 4 bits    b. 32 bits    c. 16 bits    d. 64 bits	1
	f) What is the full form of FDM? a. Frequency Division Multiplexing      b. Fire Division Multiplexing c. Face Detection Multiplexing            d. Frame Detection Multiplexing	1
	g) What is the use NIC?	1
	h) Define protocol.	1
	i) Define topology.	1
	j) Write full form of HTTP.	1
	k) Give names of 2 Guided Media.	1
	l) Give names of 2 Unguided Media.	1
	m) What is the full form of TCP/IP?	1
	n) Define LAN.	1

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

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	What is OSI Model? Explain any 3 layers of OSI Model.	<b>7</b>
<b>B</b>	Define Communication. Describe different communication methods in detail.	<b>7</b>



<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	What is Topology? Explain any three types of topology with proper diagrams.	<b>7</b>
<b>B</b>	Describe Twisted pair cables with figure.	<b>7</b>
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Write short notes on Infrared, Bluetooth and Wi-Fi.	<b>6</b>
<b>B</b>	Describe IPv4 and IPv6.	<b>8</b>
<b>Q-5</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Explain following protocols in brief: HTTP, IMAP.	<b>6</b>
<b>B</b>	Explain following network devices: Bridge, Router.	<b>8</b>
<b>Q-6</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Explain Circuit Switching in short.	<b>5</b>
<b>B</b>	Describe dynamic IP addressing using DHCP .	<b>5</b>
<b>C</b>	Discuss ARP in brief.	<b>4</b>
<b>Q-7</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Explain Packet switching and Message Switching.	<b>6</b>
<b>B</b>	Explain CSMA/CD in detail.	<b>8</b>
<b>Q-8</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Define IP address. Explain network classification based on IP.	<b>7</b>
<b>B</b>	Explain TCP/IP Protocol Suite.	<b>7</b>

