

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name: Fundamentals of Networking (FON)

Subject Code: 5CS03MFN1

Branch: MCA

Semester: 3

Date: 06/12/2018

Time: 02:30 To 05:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator and 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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SECTION – I

- Q-1 Attempt the Following questions (07)**
- a. What is Simple Duplex? 1
 - b. What is mean by data communication 1
 - c. What is IEEE Standard? 1
 - d. What is a NIC? 1
 - e. Why do we do the networking? 1
 - f. What is the Encryption? 1
 - g. What is Bandwidth? 1
- Q-2 Attempt all questions (14)**
- a. Explain the Digital Technologies with suitable figure. 5
 - b. What is Computer Network? Explain the Advantages of Computer Networking. 5
 - c. What is Internet? Difference between Internet and Intranet. 4
- OR**
- Q-2 Attempt all questions (14)**
- a. Explain the Analog Technologies with suitable figure. 5
 - b. Explain Applications for Computer Network. 5
 - c. Explain Different types of Networks? 4
- Q-3 Attempt all questions (14)**
- a. Explain Transmission medias with suitable figure. 7
 - b. What is OSI Standard? Explain OSI layer with suitable figure. 7
- OR**
- Q-3 a. Explain different Network Services with Advantages & Disadvantage. 7**
- b. Explain different Network Topologies with suitable figure. 7**



SECTION – II

Q-4	Attempt the Following questions	(07)
	a. What is the VPN?	1
	b. What is the purpose of a loopback address?	1
	c. What is Protocol?	1
	d. What are Static and Dynamic IP Address?	1
	e. What is the SNMP?	1
	f. What is the MAC?	1
	g. Define Polling.	1
Q-5	Attempt all questions	(14)
	a. Explain Time Division Multiplexing with suitable example.	5
	b. Explain Repeaters, Hubs and Modems with suitable figures.	5
	c. Explain the Client – Server architecture with suitable figure.	4
OR		
Q-5	Attempt all questions	
	a. Explain Time Division Multiple Access (TDMA) with suitable example.	5
	b. Explain Bridge, Router and Gateway with suitable figures.	5
	c. Explain the Peer-to-Peer architecture with suitable figure.	4
Q-6	Attempt all questions	(14)
	a. What is Message Switching? Explain with suitable figure.	7
	b. Explain Circuit Switching with suitable figure.	7
OR		
Q-6	Attempt all Questions	
	a. Explain Packet Switching with suitable figure.	7
	b. What is TCP/IP? Explain different IP classes with their usages.	7

