This document is a part of Main Course File	Document No.: CFM – 8

	SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED **N. G. PATEL POLYTECHNIC**
	COMPUTER ENGINEERING DEPARTMENT

FORMAT FOR ASSIGNMENTS

Course Name (With Code): CN (4340703)

Semester / Year: Third/Second

Assignment Number: 1

Assignment CO Number: 4340703.a

Sr. No.	Questions related to Course Outcomes
Part – A	**Answer the Question.**
1.	Define Computer Network. List out characteristics of network.
2.	Explain Network Criteria.
3.	List out various application of Computer Network.
4.	Explain Protocol and its key elements.
5.	What is Line Configuration? Explain in brief.
6.	Define Topology. List out various topology.
7.	Explain Star and Bus topology with its diagram, advantages and disadvantages.
8.	Explain Mesh and Ring topology with its diagram advantages and disadvantages.
9.	List the types of network. Explain any two in brief.
10.	Define server. List out various types server. Explain any two.

Prepared By: (Name of Faculty (ies)) with signature	**Signature of Head of Department**

	SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED
	N. G. PATEL POLYTECHNIC
	COMPUTER ENGINEERING DEPARTMENT

FORMAT FOR ASSIGNMENTS

Course Name (With Code): CN (4340703)

Semester / Year: Third/Second

Assignment Number: 2

Assignment CO Number: 4340703.b

Sr. No.	Questions related to Course Outcomes
Part – A	**Answer the Question.**
1	Draw clean and neat diagram of ISO OSI Reference model.
2	Explain the functionality of physical and datalink layer.
3	Explain the functionality of Network and transport layer.
4	Explain the functionality of session and presentation layer.
5	Draw and explain TCP/IP model with its protocol functionality.
6	Explain the difference between OSI & TCP/IP model.
7	

Prepared By: (Name of Faculty (ies)) with signature	Signature of Head of Department

This document is a part of Main Course File	Document No.: CFM – 8

	SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED **N. G. PATEL POLYTECHNIC** COMPUTER ENGINEERING DEPARTMENT

FORMAT FOR ASSIGNMENTS

Course Name (With Code): CN (4340703)

Semester / Year: Third/Second

Assignment Number: 3

Assignment CO Number: 4340703.c

Sr. No.	Questions related to Course Outcomes
Part – A	**Answer the Question.**
1	Draw flowchart of transmission media.
2	Explain UTP cable with proper diagram. Also mention advantages and disadvantages.
3	Explain STP cable with proper diagram.
4	Explain Co- Axial cable with proper diagram. Also mention advantages and disadvantages.
5	Explain Fiber-Optic cable with proper diagram. Also mention advantages and disadvantages.
6	List unguided media and explain any two in details.
7.	Explain various network devices. Explain Amplifier and Bridges.
8.	Explain various network devices. Explain switch and Hub.
9.	Explain Gateway.

Prepared By: (Name of Faculty (ies)) with signature	**Signature of Head of Department**

	SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED
	# N. G. PATEL POLYTECHNIC
	COMPUTER ENGINEERING DEPARTMENT

FORMAT FOR ASSIGNMENTS

Course Name (With Code): CN (4340703)

Semester / Year: Third/Second

Assignment Number: 4

Assignment CO Number: 4340703.d

Sr. No.	Questions related to Course Outcomes
Part – A	**Answer the Question.**
1	What is IP address? Explain IPv4 addressing schemes.
2	Draw and explain Packet structure of the IPv4 header.
3	What is subnet and subnet mask?
4	What is IPv6? Explain its advantages.

Prepared By: (Name of Faculty (ies)) with signature	**Signature of Head of Department**

	SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED **N. G. PATEL POLYTECHNIC**
	COMPUTER ENGINEERING DEPARTMENT

| FORMAT FOR ASSIGNMENTS ||

Course Name (With Code): CN (4340703)

Semester / Year: Third/Second

Assignment Number: 5

Assignment CO Number: 4340703.e

Sr. No.	Questions related to Course Outcomes
Part – A	**Answer the Question.**
1	List and explain various threats to security.
2	Explain the team related to security : confidentiality , integrity , Availability
3	What is Firewall? Types of Firewall and explain in brief.
4	Explain the difference between HTTP & HTTPS.

Prepared By: (Name of Faculty (ies)) with signature	Signature of Head of Department