

## 17429

## 16172

(2) Answer each next main question on a new page.

(3) Illustrate your answers with neat sketches wherever necessary.

Instructions: (1) All questions are compulsory.

	(4) Figures to the <b>right</b> thatcate <b>jun</b> marks.	
	(5) Assume suitable data, if <b>necessary</b> .	
		Marks
1.	Attempt any ten:	(20)
	a) Define 'packet' in concern with computer communication.	2
	b) Give any two applications of microwave communication.	2
	c) Give the problem faced in ring topology.	2
	d) State whether the bus is active or passive network. Justify your answer.	2
	e) List two DHCP protocols.	2
	f) List advantages of computer network.	2
	g) State the names of two sublayers of data link layer.	2
	h) What are different transmission media?	2
	i) State any four topologies.	2
	j) List any two characteristics of LAN.	2
	k) Why the network cable is twisted?	2
	l) State any 2 advantages of co-axial cable.	2
	m) Define protocol.	2
	n) List any two services provided by PPP.	2
2.	Attempt any four:	(16)
	a) Explain classification of computer network by their geography.	4
	b) State merits and demerits of client server network.	4
	c) Compare Hub, Switch and Bridge.	4
	d) With the help of neat diagram, describe working of fiber optic cable.	4
	e) State the functions of data link layer.	4
	f) Explain subnet masking.	4

3.	Attempt any four:	Marks (16)
٠.	a) Compare Client – Server and peer to peer network.	4
	b) Explain tree topology with neat diagram.	4
	c) Enlist any four communication bands for unguided media with their frequency range.	4
	d) With neat diagram explain the ESS architecture of IEEE 802.11.	4
	e) Explain OSI reference model with its layered architecture.	4
	f) State different IP address classes. Explain any one in brief.	4
4.	Attempt any four:	(16)
	a) Draw and explain Wide Area Network.	4
	b) What is transceiver? State the advantages and disadvantages of it.	4
	c) Draw a sketch of shielded twisted pair cable and describe any two characteristics.	4
	d) Describe data encapsulation in OSI model.	4
	e) Explain horizontal and vertical communication.	4
	f) Explain the principle of FTP.	4
5.	Attempt any four:	(16)
	a) With neat diagram explain Gateways.	4
	b) With the help of diagram, explain satellite communication.	4
	c) State token passing. Compare token passing with CSMA/CD.	4
	d) Explain the functions of presentation layer and network layer.	4
	e) Compare IPv4 and IPv6.	4
	f) With neat diagram explain DNS in Internet.	4
6.	Attempt any two:	(16)
	a) With neat diagram, explain client server network along with its advantages and disadvantage	es. <b>8</b>
	b) With the help of neat diagram, describe the working of Routers. Also enlist types of routers	s. <b>8</b>
	c) Describe TCP/IP model with suitable diagram.	8

\_\_\_\_\_