Roll No.	
	CUNOLOGY

SHAMBHUNATH INSTITUTE OF ENGINEERING AND TECHN

Subject Code: BCS-603

Course: B.Tech.

Subject: Computer Networks

SEMESTER: VIth

THIRD SESSIONAL EXAMINATION, EVEN SEMESTER, (2024-2025)

Branch: COMPUTER SCIENCE & ENGINEERING

ime – 2 Hr.

MaximumMarks-45

OTE: (Attempt All Sections)

Attempt any FIVE of the following.

QN	QUESTION	Marks	CO	BL
a.	Define routing. In what way it is different from switching?	2	CO3	L1
b.	Discuss Service type or Differentiated services in Datagrams.	2	CO3	L2
e. 6	Explain Connecting Devices with suitable diagram	30°2	CO3	L2
d.	What is the use of ARP protocol?	2	CO3	L1
e.	What is Source Quench in ICMP.	2	CO3	L1
f.	Explain the dynamic routing table and its fields.	2	CO3	L1 c
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. AttemptAny ONE of the following.

QN	QUESTION	Marks	CO	BL
a.	Write the different between IPv4 and IPv6.	5 0	CO3	L1
b.	Explain Classless Addressing with suitable example.	5	CO3	L2
c.	Explain fragmentation in Datagram	5	CO3	L2

3. Attempt Any FIVE of the following.

QN	QUESTION	Marks	CO	BL
a	What is socket address	2	CO4	L2
b.	List out prime three functionality of transport layer	2	CO4	L2
c.	What are the TCP segment Control field (flag).	2 &	CO4	L2
d.	What is error control in transport layer		CO4	LI

e.	Write the different between TCP and UDP	2	CO4	LI.
ſ.	What is difference between pushing data and urgent data	2	CO4	LI

I.	What is since between pashing data and urgent data	E.		Ll
4. An	empt Any ONE of the following.	SIE		
QN	QUESTION	Marks	CO	BL
a.	Explain Congestion control mechanisms.	5	CO4	L3
b.	Explain four way Handshaking with a half close option.	5	CO4	L2
c.	Write Short note	5	CO4	P1
	t)Leaky Bucket Algorithm 2)Token Bucket Algorithm		SOUL	

Attempt Any FIVE of the following.

QN	QUESTION	Marks	CO	BL
a.	What is Voice Over IP	2	CO5	L1
b.	What IMAP	2	CO5	L2
c.	Discuss SMTP	2	CO5	L2C
d.	Define digital Signature	2	CO5	Ll
e.	Write the type of data Compression	2	CO5	L1
f.	What is public key encryption	2	CO5	L1

Attempt Any ONE of the following.

ON	QUESTION	Marks	CO	BL
a.	Write the type of Cryptography Algorithm. explain it	5	CO5	L3
b.	Define SNMP Protocols and working scenario.	5	CO5	L2
c.	How does FTP work? Differentiate between passive and active FTP.	5	CO5	L1