MARWADI UNIVERSITY

Faculty of Technology

Computer Engineering

 B. Tech.   **SEM: 4th**   **MID-SEM. EXAM: I**   **March: 2023**

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Subject: - (Computer Network) (01CE0410)   **Date:- 02/03/2023**

Total Marks:-30   **Time: - 75 Minutes**

Instructions:

1. Attempt all questions.

2. Make suitable assumptions wherever necessary.

3. Figures to the right indicate full marks.

Question: 1.   [6]

    (a) Write the full form of OSI.

    (b) Write the full form of SMTP.

    (c) Write the full form of TCP.

    (d) A ring topology uses a token to transfer data. – True or False?

    (e) POP3 is mail sending protocol. – True or False?

    (f) UDP is connection-oriented protocol. – True or False?

Question: 2.   [12]

    (a) What is topology? List all types of topologies.   [6]

        i)   Explain the topology which uses a token.

        ii) Explain the topology which is combination of two topology.

    (b) Explain the concept of LAN, MAN and WAN.   [6]

OR

    (b) Draw and discuss each field of TCP header.   [6]

Question: 3.   [12]

    (a) Draw and explain each layer functionality of OSI model.   [8]

    (b) Differentiate OSI and TCP/IP model.   .   [4]

OR

    (a) Explain the components of DNS.   [8]

    (b) Write short note on SMTP and POP3 protocol.   [4]
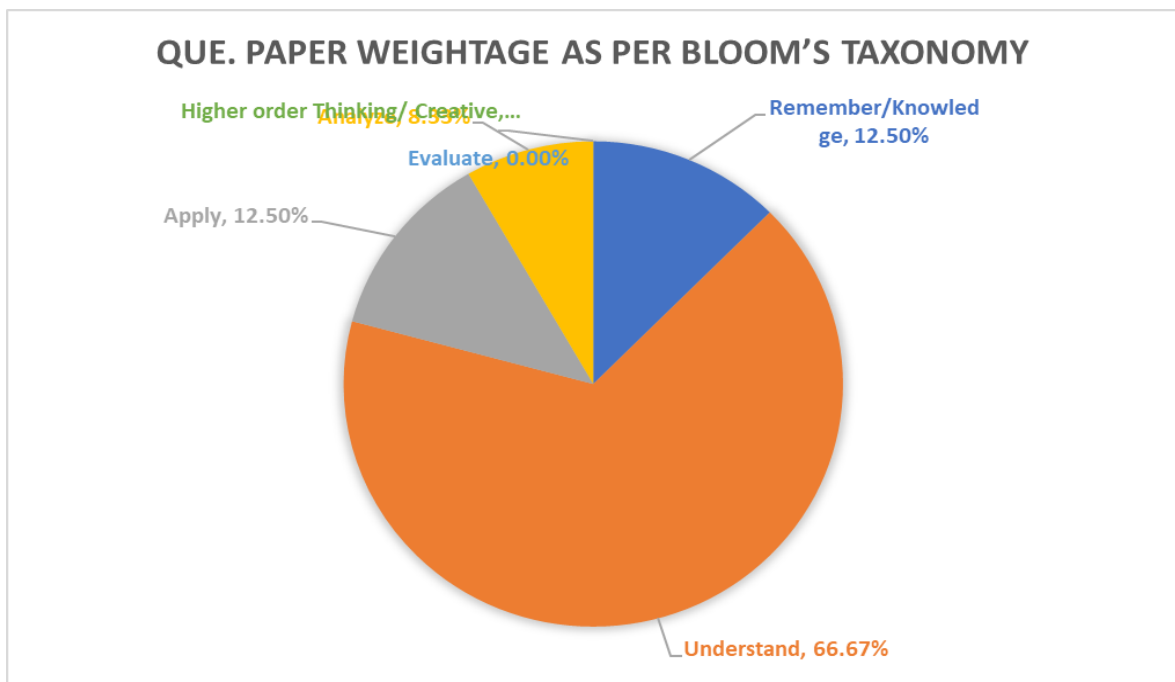
---Best of Luck---

Sub: Computer Network
Sem. 4ᵗʰ
Branch: CE

Que. Paper weightage as per Bloom's Taxonomy

LEVEL	% of weightage	Question No.	Marks of Que.
Remember/Knowledge	12.50%	Q – 1	06
Understand	66.67%	Q – 2(B), OR Q – 2(B), Q – 3(A), OR Q – 3(A), OR Q – 3(B)	32
Apply	12.50%	Q – 2(A)	06
Analyze	8.33%	Q –3(B)	04
Evaluate	0.00%	-	
Higher order Thinking/ Creative	0.00%	-	

Chart/Graph of Bloom's Taxonomy

QUE. PAPER WEIGHTAGE AS PER BLOOM'S TAXONOMY

Higher order Thinking/ Creative,…
Analyze, 8.33%
Evaluate, 0.00%
Remember/Knowledge, 12.50%
Apply, 12.50%
Understand, 66.67%

Course Outcome Wise Questions

Subject Code	**01CE0410**	Subject	**COMPUTER NETWORK**

CO No.	Course Outcome
CO1	Understand the basic terminologies used in networking, various networking topologies, switching techniques and layered architecture of computer network. (Understand)
	1(A), 2(A), 2(B), 3(A), 3(B)
CO2	Understand various networking protocols of application layer. (Understand)
	1(A), 3(A-Or), 3(B-Or)
CO3	Distinguish connection oriented and connection less protocols used for reliable data transfer and relate with flow control and congestion control. (Analyse)
	1(A), 2(B-Or)
CO4	Apply the concept of IP addressing and subnetting for IP based networks also demonstrate routing protocols. (Apply)
CO5	Demonstrate error correction and error detection techniques in data link layer, use of random access and CSMA protocol. (Apply)

Blooms Taxonomy	Question List
Remember / Knowledge	1(A)
Understand	2(B), 2(B-Or), 3(A), 3(A-Or), 3(B-Or)
Apply	2(A)
Analyze	3(B)
Evaluate	
Higher order Thinking / Creative	