



MARWADI UNIVERSITY
Faculty of Engineering and Technology
Information Technology

B.Tech

SEM: 4

MID-SEM. EXAM: I

Enroll. No. _____

February: 2024

Subject: - Computer Network (01IT1401)

Date:-27/02/2024

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.
4. Do not write/sign/indication/tick mark anything other than Enroll No. at a specific place on the question paper.

Question: 1.

[6]

- (1) Define Half-duplex mode.
- (2) What is the term used when the main server sends mail to another mail server?
1) FTP 2) SMTP 3) MIME 4) None of above
- (3) What does DHCP stand for?
- (4) Identify the layer which provides service to the user.
- (5) Full form of HTTP
- (6) LAN stands for_____

Question: 2.

[12]

- (a) Draw and explain OSI model in detail. [6]
- (b) Compare circuit switching and Packet switching. [6]

OR

- (b) Compare Persistent and non-persistent HTTP. [6]

Question: 3

[12]

- (a) Explain Go back N ARQ and Selective Repeat ARQ in detail. [8]
- (b) Given a DUMP of a UDP header in hexadecimal format 0361101A104CY242. [4]
Find the following in decimal:-

1. Source port number?
2. Destination port number?

OR

- (a) What is traffic shaping? Explain its algorithm in details. [8]
- (b) Given a DUMP of a UDP header in hexadecimal format 0381101A2024K232. [4]
Find the following in decimal:-

1. Source port number?
2. Destination port number?

---Best of Luck---

- Bloom's Taxonomy Report -

Sub: Computer network

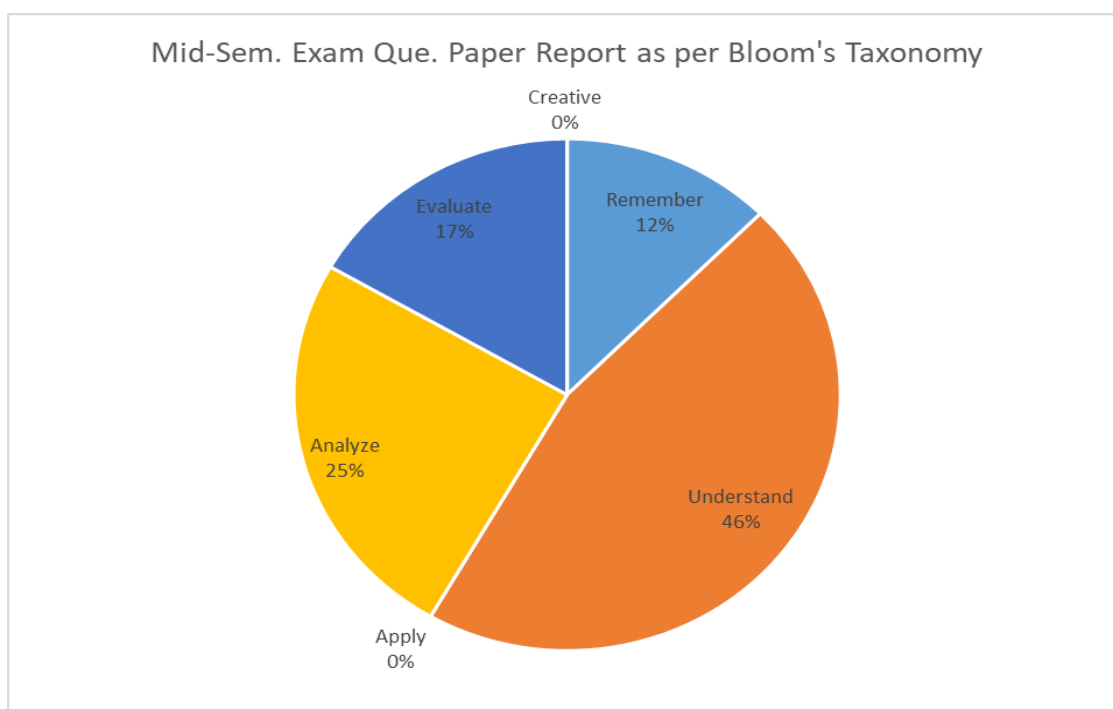
Sem.: 4th

Branch: IT

Que. Paper weightage as per Bloom's Taxonomy

LEVEL	% of weightage	Question No.	Marks of Que.
Remember/Knowledge	12.5	Q1(a)	6
Understand	45.833333	Q2(a),Q3(a,a-or)	22
Apply	0		0
Analyze	25	Q2(b,b-or)	12
Evaluate	16.666667	Q3(b,b-or)	8
Higher order Thinking/ Creative	0		0

Chart/Graph of Bloom's Taxonomy



Course Outcome Wise Questions

Subject Code	011T1401	Subject	COMPUTER NETWORK
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CO No.	Course Outcome
CO1	Describe the importance of computer networks and various performance metrics.
	1(A), 2(B)
CO2	Distinguish and relate various protocols in layered architecture of computer networks.
	1(A), 2(A), 2(B-Or), 3(A), 3(A-Or), 3(B), 3(B-Or)
CO3	Explain various topological and routing strategies for IP based networks.
CO4	Prepare client server application using socket programming
CO5	Compare various devices and protocols that builds computer network.

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