<u>IAN</u>: 2020



MARWADI UNIVERSITY

Faculty of Technology

Computer Engineering/Information Technology

B.Tech. SEM: 4th MID-SEM. EXAM: I

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Time: - 75 Minutes

Date: 27-01-2020

Instructions:

Total Marks:-30

1. Attempt all questions.

Subject: - (Computer Network) (01IT0401)

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Question: 1.

- (a) What is Protocol? How it is important in Computer Network?
- (b) What are the different types of Transmission media? Write brief about each of them.

Question: 2. [12]

- (a) Suppose that two hosts A and B are separated by 25000 km and connected by direct link of R = 5 Mbps. Suppose propagation speed s over link is $2.5 * 10^8$ meter/second.
 - (1) Calculate bandwidth delay product e.g. R * propagation delay.
 - (2) What is width of bit on the link?
- (b) Draw a layered architecture of OSI reference model and write at least two services provided by each layer of the model.

OR

(b) Draw a layered architecture of TCP/IP model and write at least two protocols of each layer of the model.

Question: 3. [12]

- (a) Explain working of email protocols SMTP, IMAP and POP3 with suitable diagram.
- (b) What is HTTP? Differentiate its persistent and non-persistent types with request-response behavior of HTTP.

OR

- (a) Discuss the DNS services in detail. Also briefly explain iterated and recursive query.
- (b) What is FTP? Write at least three FTP commands with their responses.

---Best of Luck---

- Bloom'S Taxonomy Report -

Sub: Computer Network (01IT0401)

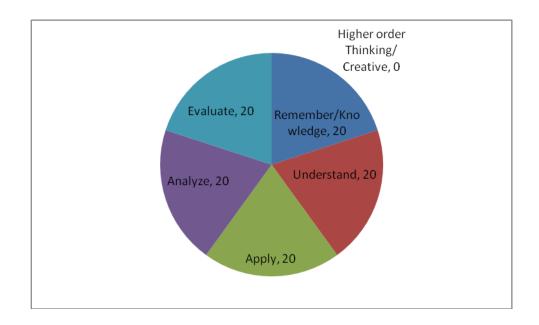
Sem. 4th

Branch: Computer Engineering/Information Technology

Que. Paper weightage as per Bloom's Taxonomy

LEVEL	% of weightage	Question No.	Marks of Que.
Remember/Knowledge	20	Q.1 (a), Q.1(b)	6
Understand	20	Q.3(a), Or Q.3(a)	6
Apply	20	Q.3(b), Or Q.3(b)	6
Analyze	20	Q.2(b), Or Q.2(b)	6
Evaluate	20	Q.2(a)	6
Higher order Thinking/ Creative			

Chart/Graph of Bloom's Taxonomy



2 | P a g e M U

Course Outcome Wise Questions

Subject Code	01IT0401	Subject	COMPUTER NETWORK
			001110111111111111111111111111111111111

CO No.	Course Outcome
CO1	(Remember) Describe the importance of computer networks and various performance metrics.
CO2	(Understand) Distinguish and relate various protocols in layered architecture of computer
002	networks.
CO3	(Apply) Explain various topological and routing strategies for IP based networks.
CO4	(Apply) Prepare client server application using socket programming
CO5	(Analysis) Compare various devices and protocols that builds computer network.
CO6	(Evaluate) Measure of network parameters.

Blooms Taxonomy	Question List
Remember / Knowledge	
Understand	
Apply	
Analyze	
Evaluate	
Higher order Thinking / Creative	