Total No. of Questions: 8 ] [Total No. of Printed Pages: 3

Roll No. ......

## MCIT/MCSE-301(B)

## M. Tech. (Third Semester) EXAMINATION, Feb./March, 2009

## WEB ENGINEERING

Time: Three Hours

Maximum Marks: 100

Minimum Pass Marks: 40

Note: Attempt any *five* questions. Answer should be laconic.

Make suitable assumptions wherever necessary and clearly state the same.

- 1. (a) Explain the following design issues of client server model:
  - (i) Addressing
  - (ii) Blocking
  - (iii) Buffering
  - (b) How locality of principal is followed in DNS? Explain.

Q

2. (a) What is MTU? How do IP routers handle the problem of networks with heterogeneous MTUs? What information is added/changed in the IP Data gram header to enable destination to reconstruct the data gram sent by the source?

P. T. O.

	(4)	
	(a)	
	(3)	Same on both the packets?  What is the use of proxy ARP?
33	(a)	te? Explain by takin
		example.
	(p)	Give the format of UDP data gram and explain the semantics of every field. How is the checksum in the
		header computed?
4.	(a)	Explain RARP packet format.
	(p)	P resolve an Ethernet MAC address t
		all Ir address ?
	(c)	What will happen if more than one RARP server in a network responds to a RARP request?
w	(a)	generated th
	,	Parising Parising
		(i) Source Quench
		(ii) Redirect
		(iii) Destination Unreachable
	(p)	Explain the importance of resource record.
0.	(a)	How CIDR reduces the number of entries in a routing
		table?
	(q)	How is a subnet mask formed?
	(c)	What is the use of type of service field in the P.
		header? 5
7.	(a)	Explain the role of the following in network
		management: 10
		(i) Structure of Management Information (SMI)

(b) How does TCP/IP decide the size of an IP fragment?

What is the difference between classful IP addressing

(c)

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Write notes on any two of the following:

and classless IP addressing?

Trivial File Transport Protocol

SMTP

(a) Open Shortest Path First