· June - 2 cof

Roll No.

Subject Code—9690-X

M. C. A. (Third Year) EXAMINATION

(5 Years Integrated Course)

MCA-304

INTERNET FUNDAMENTALS

Time: 3 Hours Maximum Marks: 100

Note: Attempt any *Five* questions. All questions carry equal marks.

- (a) What are the important factors that are driving the growth of computer networks in organizations? Explain citing relevant examples.
 - (b) What is the full form of ping? How is it useful? Explain a ping response. 5
- 2. (a) What do you understand by 'Tracing a Route' ? How does trace route work ?

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(2-40) P.T.O.

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(b)	What is an IP Address? What is the use
	of an IP address ? How are IP Addresses
	classified ?
	Subject Code—None-A
(a)	What are Packets? What are the salient
-1	rules for packet control?
(b)	Explain the term 'WAN'. Discuss the
	important characteristics of a WAN. 10
(a)	How is IP multicast useful for group
Towns of	communication applications on the
101	Internet? Why are IP multicast services
	slow on commercial deployment by ISPs
	and carriers ? Discuss.
(b)	How can a datagram be added? List the
18 18	steps involved.
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(a)	What is meant by IP Fragmentation?
	Why is an IP datagram fragmented?
	What are the limitations on the size of
	the fragment ? 7
(b)	Examine the relationship between http,
	www and FTP. 7
(c)	Explain the terms : Authentication, Non-
1	repudiation and integrity control. 6

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6.	(a)	What do you understand by the term 'Domain Name System'? 5
	(b)	What is the purpose of FTP ? Explain. 5
	(c)	Which protocol is used for electronic-mail over the Internet and why? 10
7.	(a)	Discuss briefly the critical performance problems in computer networks?
	(b)	What is bandwidth-delay product? How is it useful? 6
	(c)	What are the precautions to be adopted while measuring network performance?
8.		te short notes on any four of the twing:
	(a)	CGI Technology
	(b)	Addressing Systems used by SMTP
	(c)	Cryptography
	(d)	TCP Stream Transport Service
	(e)	Digital Signatures
	(f)	Social issues in Network Security5×4.

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