Roll No.

Subject Code—2016

M.C.A. (Third Year) EXAMINATION

(Five Year Integrated Course)

INTERNET FUNDAMENTALS

MCA-304

Time: 3 Hours Maximum Marks: 100

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

- 1. Write short notes on the following:
 - (a) Search Engine
 - (b) Future of IP
 - (c) IP Encapsulation
 - (d) Fragmentation

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What is DNS? Why is it required? Explain the significance of DNS server. When a DNS server receives a request, what are the possible actions it can take?
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1-02--04-09)

P.T.O.

- (a) What is purpose of FTP? Discuss the FTP connection mechanism between the client and server.
 - (b) How does a web browser work?

 Describe the steps involved when a web
 browser requests for and obtains a web
 page from a web server.

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- What is the need for dynamic web page? List
 the steps involved in retrieval of dynamic web
 page. Discuss how CGI works at the conceptual
 level and what is the biggest disadvantage of
 CGI.
- (a) Differentiate port and socket with the nelp of example.
 - (b) Describe the broad level features of TCP.
 What factors make TCP reliable? 15
- 6. (a) Describe the kinds of risks involved in so data communication over a network. 10
 - (a) Explain the growth of computer networking and internet in detail. 10

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7.	(a)	Describe	the	various	layers	in	TCP/IP	in
		brief.						10

(b) Explain WAN technologies and routing in detail. 10

8. Write short notes on the following:

- (a) Telner
- (b) Firewall
- (c) PING and Tracing a route. 20