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**MCA-503(N)**

**M. C. A. (Fifth Semester)  
EXAMINATION, Nov.-Dec., 2007**

**(New Course)**

**INTERNET AND ITS APPLICATIONS**

**[MCA-503 (N)]**

**Time : Three Hours**

**Maximum Marks : 100**

**Minimum Pass Marks : 40**

**Note :** Question paper is divided into five Units. Attempt *one* question from each Unit. All questions carry equal marks.

**Unit-I**

1. (a) Describe in brief the services and features provided on the internet.
- (b) What is meant by TCP/IP ? Discuss in detail. Compare TCP/IP account with shell account.

*Or*

2. (a) What is Internet addressing ? Explain in detail about various electronic addressing.
- (b) Explain the following networks :
  - (i) FDDI
  - (ii) WAN
  - (iii) ATM

- 9** (b) Explain the following :
  - (i) Java script
  - (ii) Servlet

*Or*

10. (a) Explain different stages of website planning cycle.
- (b) Write short notes on the following :
  - (i) Portal
  - (ii) URL

**Unit-II**

3. (a) What are the uses of Proxy ARP and subnet addressing ? Explain.
- (b) Compare datagram and virtual circuit. Write a brief note on datagram delivery.

*Or*

4. (a) Write an algorithm for routing IP datagrams.
- (b) Explain RARP. How does it affect the reliability of a network ?

**Unit-III**

5. (a) Explain the functions of UDP header and UDP checksum.
- (b) Explain the TCP three-way handshaking operations in detail.

*Or*

6. (a) Describe UDP multiplexing and demultiplexing in detail.
- (b) Explain the simultaneous open and close of TCP.

**Unit-IV**

7. (a) List and explain the features of some FTP client software programs that you can freely download from web.
- (b) Write the uses, capabilities and limitations of firewall.

*Or*

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8. (a) Write short notes on the following :
  - (i) POP3
  - (ii) SMTP
  - (iii) MIME
- (b) Discuss in detail about internet security threats.

**Unit-V**

9. (a) What is web publishing ? Explain.