HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

PGDCA SEMESTER – I
DCA-103 : Data Communication, Internet, Web Designing And E-Commerce

University Examination Duration : 3 Hours.

UNIT : I (14 Marks)

Basic of Computer Networks:

Networking of Computer.- Advantages and disadvantages of computer networking. Types of Networks - LAN, MAN, WAN Network Topology – Star, Ring, Bus, Tree, Complete, Irregular.Reference Models - The OSI reference model, the TCP/IP reference model

UNIT : II (16 Marks)

Transmission Media:

Transmission media - Magnetic media, twisted pair, co-axial cable (baseband and broadband) , fiber optics principle, transmission of light through fiber, fiber cables, fiber optics network, comparison of fiber optic and copper wire.

UNIT : III (28 Marks)

Internet: (10 Marks)

Evolution, Protocols, Interface concepts, Internet v/s Intranet, ISP, connectivity – Dial Up, Leased line, VSAT, URLs, Domain names, Portals.

E-mail – POP and WEB based E-mail, merits, address, basics of sending and receiving, E-mail protocols, mailing list.

File Transfer Protocols, Telnet, Chatting (voice & text) remote logging, Terminal emulation, message board.

World Wide Web – Working, Web browsers, concept of search engines, searching the Web, HTTP, URLs, Web servers, Web protocols.

HTML: (18 Marks)

Understanding HTML, Create a Web Page, Linking to other Web Pages, Publishing HTML Pages, Text Alignment and Lists, Text Formatting Fonts Control, Email Links and link within a Page, Creating HTML Forms, Creating Web Page Graphics, Putting Graphics on a Web Page, Custom Backgrounds and Colors, Creating Animated Graphics

Web Page Design and layout, Advanced Layout with Tables, Using Style Sheets

UNIT : IV (12 Marks)

E-Commerce:

Concepts and technology in E-Commerce, Internet and E-business, Advantages of E-Commerce, Applications, Feasibility & various constrains, Future of E-Commerce.

Books:

1. Computer Networks - Andrew S. Tanenbaum PHI Publications
2. O – Level module M 1.2 Internet & Web Page design V K Jain BPB Publication.
3. Internet for Everyone – Alexix Leon and Mathews Leon Vikas Publication.
4. Tech Yourself HTML 4 in 24 Hours by Dick Oliver (Techmedia)
5. 10 minutes Guide to HTML Style Sheets by Craig Zacker (PHI)
6. A Beginner's Guide to HTML available at:

http://www/ncsa.uiuc.edu/General/Internet/WWW/HTMLPrimerAll.html

Question Paper Scheme:

Q.1 - Unit-I (14) Marks
   A. Objective/ Short Questions.
   B. Descriptive/ Long questions.
Q.2 - Unit-II (16) Marks
   A. Objective/ Short Questions.
   B. Descriptive/ Long questions.
Q.3 - Unit-III (28) Marks
   A. Objective/ Short Questions.
   B. Descriptive/ Long questions.
Q.4 - Unit-IV (12) Marks
   A. Objective/ Short Questions.
   B. Descriptive/ Long questions.

Note: Options should be given in all questions.