MCA–04/PGDCA–04/M.Sc. IT–04

Fundamentals of Networking and Web Technology

First Semester, Examination, 2018

Time : 3 Hours   **Max. Marks : 80**

Note : This paper is of **eighty (80)** marks containing **three (03)** Sections A, B and C. Attempt the questions contained in these Sections according to the detailed instructions given therein.

Section–A

(Long Answer Type Questions)

Note : Section 'A' contains four (04) long answer type questions of nineteen (19) marks each. Learners are required to answer *two* (02) questions only.

1. Describe TCP/IP reference model of computer network and their working with example.

2. Explain transmission media with examples. What is the position of the transmission media in the OSI or the Internet Model ?

3. Design a web page (write code) using HTML and JavaScript containing a paragraph about computers. The text colour of this paragraph should change on click of the mouse on that paragraph.

4. What is JavaScript ? What is the difference between Built-in object in JavaScript and user defined objects in JavaScript ?

Section–B

(Short Answer Type Questions)

Note : Section 'B' contains eight (08) short answer type questions of eight (08) marks each. Learners are required to answer *four* (04) questions only.

1. What are the advantages of a multipoint connection over a point-to-point connection ?

2. What are the responsibilities of Transport Layer in the TCP/IP model ?

3. Distinguish between baseband transmission and broadband transmission.

4. What are some of the factors that determine whether a communication system is a LAN *or* WAN ?

5. Explain about Internet information service.

6. Write about features of XML.

7. Write short notes on DNS, URL and Cookies.

8. Explain the use of control structures in JavaScript.

Section–C

(Objective Type Questions)

Note : Section 'C' contains ten (10) objective type questions of one (01) mark each. All the questions of this Section are compulsory.

1. Which kind of network topology is internet ?

    (a) LAN

(b) MAN

(c) WAN

(d) Intranet

2. HTML stands for :

(a) Hyper Text Medium Language

(b) Hyper Text Markup Language

(c) Hyper Text Master Language

(d) Hyper Terminal Markup Language

3. JavaScript is preferably used for :

(a) Server side scripting

(b) Authentication

(c) Client side scripting

(d) Internet access

4. What is not the attribute of IMG tag ?

(a) ALIGN

(b) SRC

(c) ALT

(d) HREF

5. What is DOM stands for ?

(a) Document Object Model

(b) Data Object Model

(c) Data Oriented Model

(d) Data Over Media

6. Which is the 4th layer of ISO-OSI model ?

   (a) Application layer

   (b) Data link layer

   (c) Transport layer

   (d) Network layer

7. Which protocol is used for connectionless data transfer ?

   (a) UDP

   (b) TCP/IP

   (c) IP

   (d) POP

8. .... are stored on the user's browsers to give better browsing experience.

   (a) Web Page

   (b) Cookies

   (c) HTML

   (d) Certificates

9. How to comment in XML ?

   (a) //

   (b) /* */

   (c) '

   (d) <!-- -->

10. Tick the Unguided media example :

   (a) Satellite

   (b) Coaxial cable

   (c) Twisted pair

   (d) Fibre optics