2019

COMPUTER SCIENCE

(Major)

Paper : 6.2

(Web Technologies)

Full Marks : 60

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. Answer the following questions as directed :

   1×7=7

   (a) DSL uses phone lines to transfer data.

   (State True or False)

   (b) Web server uses —— protocol to deliver Web pages.

   (Fill in the blank)

(*Turn Over*)

(c) A proxy server is used

   (i) to provide TCP/IP

   (ii) to process client request for database access

   (iii) to process client request for Web pages

   (iv) to provide security against unauthorized users

       (Choose the correct option)

(d) ODBC stands for _____.

       (Fill in the blank)

(e) XML stands for _____.

       (Fill in the blank)

(f) JavaScript can react to events.

       (State True or False)

(g) _____ statement is used in VBScript to redefine the size of an array.

       (Fill in the blank)

2. Define the following terms :   2×4=8

   (a) VSAT

   (b) URL

   (c) CGI

   (d) DTD

3. Answer any *five* of the following questions :   5×5=25

(a) What is a Web server? Explain the functionality of Web server.

(b) What is an IP address? Explain how it works.

(c) Prepare a list of security measures to protect Web server.

(d) What is ODBC? Briefly explain the architecture of ODBC.

(e) Briefly explain the function of style sheet and DTD.

(f) Write a program in JavaScript to display current date and time.

(g) Write a program in JavaScript that responds to a mouse click anywhere in the page.

(h) Write a program in ASP to create a welcome cookie.

4. Answer any *two* of the following :   10×2=20

(a) Design a sign-up form and validate it.

(b) What are the important features of XML? List the standards defined by W3C regarding XML.

(c) Explain the following JDBC API components :

- Statement
- PreparedStatement
- ResultSet
- DatabaseMetaData

(d) Write short notes on the following :

- DNS
- Firewall

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3 (Sem–6) CSC M 2