

Time : 3 Hours Total Marks : 100

Note :-Attempt all questions.

1. Attempt any four parts : (5x4=20)

- (a) What is World Wide Web ? Illustrate history and growth of web.
- (b) What strategies are required to develop a web project ?
- (c) Explain any three protocols governing the web application.
- (d) What are components required to build web application ?
- (e) What do you mean by software-quality assurance ?
- (f) Discuss the responsibilities of web team member.

2. Attempt any four parts : (5x4=20)

- (a) Explain the structure of an XML document.
- (b) How does HTML differ from XML ? Explain with the help of an example.
- (c) What is Hypertext Link ? What is the method to link to a specific place within the same document ?
- (d) What are the different types of lists available in HTML ? Give an example of each type.
- (e) What are advantages of a SAX parser over the DOM parser ?
- (f) What is CSS ? Write a CSS rule that makes all the text 2 times larger than the base font of the system.

3. Attempt any two parts : (10x2=20)

- (a) (i) Explain the various Form objects used by JavaScript with suitable example.
- (ii) Write a JavaScript to demonstrate how data validation can be performed.
- (b) Explain how events are handled in JavaScript. Create a JavaScript which has event handlers for the buttons "red", "blue", "green", "yellow" and "orange" which must produce message stating the chosen favorite color. The event handler must be implemented as a function, whose name must be assigned to the onclick attribute of the radio button elements. The chosen color must be sent to the event handler as a parameter.
- (c) What is Java Bean ? How will you use the JSP language elements for accessing Bean in your JSP pages ?

4. Attempt any two parts : (10x2=20)

- (a) (i) What is JSP ? Explain its role in the development of web sites.
- (ii) What are various implicit objects used with JSP ? Explain.
- (b) Using Servlet, JSP, JDBC and XML create a web application for a recruitment agency to providing assistance in searching the candidates from its database as per requirements of its various clients. Make necessary assumptions while developing this application.
- (c) What do you mean by Cookies ? How the cookies are used to send and retrieve the information from the client ? Explain with a suitable example.

5. Write short notes on any two of the following: (10x2=20)

- (a) AJAX
- (b) VBScript
- (c) PHP.