Total number of printed pages—4

53 (IT 604) WBTC

2021

WEB TECHNOLOGY

Paper : IT 604

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer *any five* questions.

1. (a) What is a status line in HTTP ? Explain with example. 10

   (b) Why is HTTP known as a stateless protocol ? Write the advantages and disadvantages of the stateless protocol. Discuss the differences between GET and POST methods of the HTTP protocol. 3+2+5=10

2. What is the internet ? How do you use the internet ? What are the types of email services ? List different types of email service providers and their features. 2+3+3+12=20
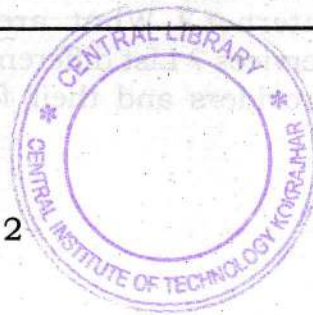
Contd.

3. (a) Write a CSS rule to achieve the following : 6

    (i) Set all heading (h1-h6) to red font with all capital letters.

    (ii) Set text color of all ⟨p⟩ element to green with yellow background.

(b) What are the differences between class selector and ID selector ? 4

(c) Write the HTML code to create the following web page using frame. 10

4. (a) Explain the concept of classes in JavaScript. How are they implemented? Give examples for constructors, methods and properties. 10

(b) What is the purpose of the z-index and position property? Explain with the help of an example. 10

5. (a) State the type of lists supported by HTML and explain them in details. What is the use of start property in list? 7+3=10

(b) Write the differences between the following: 10

(i) HTML and XML

(ii) DIV and SPAN

(iii) Block and Inline

(iv) Radio button and Drop-down menu

(v) Cellpadding and Cellspacing.

6. Assume that an HTML form accepts the name and date of birth of the user. Write a JavaScript program to validate the date of birth format and submit the input to the server. Write a JSP or Servlet program to calculate the age of the user. 20

7. Create a form which has text fields, password, textarea, checkbox, radio button, submit button, reset button and dropdown box. Now validate this form i.e. you have to check before submitting the form whether

(i) any field of the form is empty

(ii) e-mail address is valid or not

(iii) password must contain at least one special character

(iv) text field should not be more than 15 characters long.

20