

Total number of printed pages-4

52 (5) WBTC ITB-HC-5026

2021

(Held in 2022)

WEB TECHNOLOGY

Paper : ITB-HC-5026

Full Marks : 60

Time : Three hours

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

Answer question no. 1 and any five from the rest.

1. Write in short : 2×5=10

- (i) What is linking ? Mention its types.
- (ii) What do you mean by a valid XML document ?
- (iii) What is document object model ? Why it is used ?

Contd.

- (iv) What is protocol ? Give the names of protocol used in e-mail services.
- (v) Write *two* functions of webserver.
2. (i) What are the main component technologies of DHTML ? How it is different from HTML ? $2+3=5$
- (ii) Write about the basic building blocks of XML. 5
3. (i) What is scripting language ? Explain different types of scripting language with example. $1+4=5$
- (ii) What does the following HTML tag imply ? Give *one* example of each : $1 \times 5 = 5$
- (a) `< pre >`
- (b) `< sup >`
- (c) `< tt >`
- (d) `< ul >`
- (e) `< a >`
4. (i) What do you mean by JDBC ? Write differences between JDBC and ODBC. $1+4=5$

- (ii) Construct a valid XML file to contain information of one or more employees working in an organization. The employee's information include name, designation, address, e-mail, phone_no and DOB. 5
5. (i) What is proxy server ? Describe the working technology of proxy server. 2+3=5
- (ii) Write a PHP code to insert book records into the table 'Book' for the fields b_id, b_name, author1, author 2, publisher and price. 5
6. (i) What do you mean by EJB ? Explain different types of EJB. 1+4=5
- (ii) Write an external DTD to validate XML for a newspaper article. 5
7. Write JavaScript programs : **(any two)** 5×2=10
- (i) To find the fibonacci series of number n by using function
- (ii) To design a digital clock using function
- (iii) To check whether a string is palindrome or not.

8. (i) What do you mean by RMI ? Write the differences between RMI and EJB. $2+3=5$

(ii) Define an Entity. Explain different types of Entity with examples. $1+4=5$

9. Write short notes on : **(any two)** $5 \times 2 = 10$

(i) CORBA

(ii) Firewall

(iii) Browser plugins

(iv) Java Servlet