Code: 19IT3602

III B.Tech - II Semester – Regular Examinations – JUNE 2022

WEB TECHNOLOGIES
(INFORMATION TECHNOLOGY)

Duration: 3 hours   Max. Marks: 70

Note: 1. This question paper contains two Parts A and B.
   2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.
   3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.
   4. All parts of Question paper must be answered in one place.

PART – A

1. a) Write about different list tags in HTML?
   b) What is well-formed XML document?
   c) What are the methods used to move the cursor position of ResultSet?
   d) What is CGI? Name two CGI environmental variables with their purpose.
   e) How JSP resolves the problems with Servlets?

PART – B
UNIT – I

2. a) Develop an web page to take input number then calculate and display factorial of that number using Java Script.   6 M
   b) Develop CSS code that defines five classes of paragraph with different background, color, margins, padding and border style.   6 M

OR

3. a) Develop a static webpage to display marks of a student as shown below:

Subjects	Assessment-1 (30)	Assessment-2 (30)	Final Assessment (40)
ML	24	25	34
SC	22	23	33
ACA	24	22	32
WT	25	21	36
IS	26	26	35
STM	21	28	32

Calculate Average score and display attained percentage. 6 M

b) Explain how events are handled in Java Script. 6 M

UNIT – II

4. a) Develop a DTD for professors and students daily schedule. 6 M

b) Define an XML schema. Show how an XML schema can be created. 6 M

OR

5. a) Why do we get a NullPointerException when loading a JAR file into the BeanBox? Discuss how to overcome it with an example. 6 M

b) Explain in detail how XML data is parsed with an example. 6 M

UNIT-III

6. Explain different types of JDBC drivers with suitable sketches. Compare all drivers with advantages, disadvantages, examples.   12 M

OR

7. Explain the use of CallableStatement Interface when it is working with Stored Procedures and Cursors. Illustrate it with suitable example.   12 M

UNIT – IV

8. a) Develop a servlet that handles an HTTP POST request.   6 M

   b) Discuss about Session tracking in Servlets with a suitable example.   6 M

OR

9. a) Discuss the process of deploying a web application.   6 M

   b) How to handle http request and responses? Explain.   6 M

UNIT – V

10. a) Describe the anatomy of a JSP page.   6 M

    b) Explain in detail of how to use Java Beans in JSP pages with suitable example.   6 M

OR

11. Discuss about various categories of JSP tags. Explain each of them with syntax and suitable examples.   12 M