Web Technology (KCS-602)

CO Number	Course Outcome
CO1	Able to define [1. Remember] Web Development Strategies, Internet Tools and the protocols that govern the web, Internet Services & basic HTML tags.
CO2	Able to describe [2. Understand] web development strategies, architecture of the client-server computing, concepts of Java, Java Networking APIs, XML, Java Beans, JDBC, AJAX, Servlets and JSP.
CO3	Able to demonstrate [3. Apply] the concepts of Java Programming (Arrays, Methods & Classes, Inheritance, Polymorphism, Exceptions, Multithreading, File I/O, Applets, AWT and JDBC), HTML, CSS and JavaScript.
CO4	Able to examine [4. Analysis] the different kinds of architecture of web, XML Parsers, XML Structures, different types of CSS and various concepts of Java.
CO5	Able to compare [5. Evaluate] dynamic and client-side/server-side interactive web sites/applications and AWT applications on Applets and Frames as container.

Time: 3 Hrs.   M. M. 100

Section A

Q1. Attempt all questions: (2X10 =20 Marks)

a)	List different technologies used in web design and define the role of scripting language in web design.	CO1
b)	Define client-server computing with diagram.	CO1
c)	Describe the objective of any website.	CO2
d)	Define static variable in java.	CO1
e)	Write short notes on class and object.	CO1
f)	Describe some important features of Java in brief.	CO2
g)	Differentiate between XML and HTML.	CO2
h)	Write short notes on interface.	CO2
i)	Differentiate between encapsulation and abstraction.	CO2
j)	Describe border layout and flow layout in brief.	CO2

Section B

Q2. Attempt all questions: (10X3 = 30 Marks)

a)	Examine the concept of inheritance in java with suitable example.	CO4
b) i)	Describe method overriding in java. Compare method overriding and method overloading with suitable example.	CO2

OR

ii)	Describe Constructor and their type in java with suitable example.	CO2

c) i)	Demonstrate through a JavaScript program to display the current day and time in the following format. Today is: Monday. Current time is : 11 AM : 50 : 58	CO2

OR

ii)	Illustrate TCP/IP client Socket and InetAddress class in Java Networking with example.	CO2

Section C

Q3. Attempt all questions: **(10X5 = 50 Marks)**

a i)   Compare Java and Java Script. Write a java script program to find largest among five   CO3
        numbers.

OR

  ii)   Illustrate exception handling in java. Explain the keywords try, catch, throw and finally   CO3
        with example.

b i)   Construct an HTML code to create a web page that contains the user registration form   CO3
        with following details:
        user name, user date of birth, user address, user gender, user email id, user mobile
        number.

OR

  ii)   Explain the working of AJAX along with its application. Mention suitable example.   CO3

c i)   Describe JDBC. Explain the Drivers used in JDBC in brief. Write a java code to fetch ,   CO2
        and print the data from table.
        Table name: EMPLOYEE
        Column Name: ID,EMP_NAME, EMP_DEPT, EMP_SAL

OR

  ii)   Describe EJB and its Architecture. Differentiate between stateful and stateless EJB.   CO2

d i)   Explain Cascading Style Sheet and their types with suitable example.   CO4

OR

  ii)   Explain Abstract class with suitable example. Distinguish between abstract class and   CO4
        concrete class.

e i)   Explain the concept of Servlet. Compare the life cycle of Servlet is different from the   CO5
        life cycle of JSP with an example.

OR

  ii)   JSP is an extension of Servlet not replacement. Justify? Explain different type of   CO5
        standard action tags used in JSP.