SPRING MID SEMESTER EXAMINATION

School of Computer Engineering

KIIT DEEMED TO BE UNIVERSITY

INTRODUCTION TO WEB TECHNOLOGY [IT 3042]

Full Marks: 20   **Time: 1.5 Hours**

Answer any FOUR questions including question No.1 which is compulsory.
The figures in the margin indicate full marks.

1.   [1x5]

(a) Write down the functionality of <meta> tag with example.

(b) Write the output of the following code with justification -

```
class B{
int x;
B(int a){
        x=a;}
public static void main (String ar[]){
        B  c=new B();
        System.out.println (c.x);
} }
```

(c) Differentiate between bgcolor and background attribute in HTML.

(d) Write the output of the following code with justification-

```
class  A{
int x;
boolean y;
public static void main (String ar[]){
        A  p=new A();
        System.out.println (p.x);
        System.out.println (p.y);
} }
```

(e) Explain definition list with suitable example in HTML.

2. (a) Create a html form with following fields: [3]

Field	Type
Name	-textbox
Address	-textarea
Gender	-two separate radio button for male and female
Dob	-Date
Hobbies	-checkbox (minimum three hobbies)
State	-dropdown list
Password	-password field
Submit	-button

(b) Design a web page in HTML with two vertical frames (50,50). The left frame should display the semester papers using ordered list and the right frame should display branches offered by our university using unordered list. **[2]**

3. (a) Write a program in Java to print sum of the squares of all the numbers within a given range entered by the user such as – starting number, ending number. **[2.5]**

(b) What is a stylesheet ? Explain with example how an external stylesheet can be used in a HTML page. **[2.5]**

4. (a) Write a program in Java to illustrate the concept of constructor overloading. **[2.5]**

(b) Define a class Clock with two data members such as minute hand and hour hand. It has a constructor to initialize the positions of the hands (between 1 to 12). Also it includes a method to find angle between two hands. Implement the necessary java code to test the functionality of this method by creating an object of the Clock class with two user input values for both hand positions. **[2.5]**

5. Write short notes on (any **two**): **[2.5+2.5]**

    (a) command line arguments in Java
    (b) Intra-page linking in HTML
    (c) Characteristics of Java

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