



## AUTUMN MID SEMESTER EXAMINATION-2017

### WEB TECHNOLOGY (IT-2003)

**Full Marks: 25**

**Time: 1.5 Hours**

*Answer any five questions including question No.1 which is compulsory.*

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable and all parts of a question should be answered at one place only.*

Q1. Answer the following questions:

(1 x 5)

a) Consider the following HTML code.

```
<html><head><style> h1{color:black;} </style>
<link rel="stylesheet" href="a.css"></head>
<body><h1 style=" color:blue;"> MIDSEM</h1></body></html>
a.css
```

```
h1{color:red;}
```

In what color it will display the "MIDSEM" which is written in <h1> .

b) What is the output of the following program.

```
class A {
    static {
        System.out.println("A"); }
    A(){ System.out.println("B"); }
}
class B extends A{
    static {
        System.out.println("C"); }
    B(){ System.out.println("D"); }
}
class Demo{
    public static void main(String x[]){
        B b= new B();
    }
}
```

c) public class foo{  
    public static void main(strng p[]){System.out.println("hello" +p[0]);}  
}

What is the result if this code is executed with the command line java foo world.

d) Draw the following table in html using colspan and rowspan

A		
B	C	D
	E	

- e) " static method cannot refer to this keyword or super keyword". State true or false and justify your answer.

- Q2. Create a web page as follows: having 3 frames. KIIT University will move in marquee in the top frame. In the left frame 3 hyperlinks will be there and clicking on that the desired result will be displayed in the right frame. (5)

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- Q3. Write a program to create an Account class containing acc\_no and balance as data members. This class contains the method disp() to display the details. Create another class AccountHolder by inheriting the features from Account class. This class contains uid and name as datamembers. Override the disp() method to display all the details. AccountHolder class contains transfer() method to transfer balance from one account to another account. show AccountHolder details in Demo class, Demo class contains the main() method. (5)
- Q4. Implement a class Rational having instance variables num(numerator) and denum(denominator) and the class has two constructors: one is default Rational() and another is parameterized Rational(int,int) constructors. Include the following methods (5)
- (i) Rational add(Rational ) : is used to add two rational objects.
  - (ii) Rational mul(Rational ) : is used to multiply two rational objects.
  - (iii) boolean is\_Equal(Rational): is used to return true if two rational objects are equal otherwise false.
  - (iv) void show(): is used to display the rational object in num/den(for example 1/2, not 0.5) form
- Q5. Implement a java program where an 1-dimensional array A[] is initialized through command line arguments and the square of each element of A[] is kept in a new array B[]. And the content of both arrays have to be displayed on the console. (5)
- Q6. Design a registration form with following input fields in HTML : (5)
- Name - textbox
  - Address - textarea
  - Gender - two radio buttons (male & female)
  - Date of birth - three select options (date, month & year)
  - Qualification - three checkboxes
  - Contact no - textbox(size 10)
  - Submit - button
- On submission of the form, a thanking page should be displayed.
- Q7. Write short notes on the following (any two): (2 x 2.5)
- a) HTML List
  - b) Use of super keyword
  - c) id and class selector
  - d) java oop principle