

4th Sem B.Tech
(Regular-2011 batch & Back)
WT 1T-401
(IT)

SPRING END SEMESTER EXAMINATION-2013

4th Semester B. Tech

WEB TECHNOLOGY IT-401

[Regular-2011 Admitted Batch & Back]

Full Marks: 60

Time: 3 Hours

Answer any SIX 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 <u>all parts of a question should be answered at one place only.</u>

1. (a) Write down any two rules of method overriding.

[2×10

- (b) Write down the difference between protected and friendly access specifires in java.
- (c) Write down in brief about JComboBox Class along with the hierarchy.
- (d) Write down any differences between checked and unchecked exceptions in java.
- (e) What is Inner Class in Java? How does it differ from the nested Class?
- (f) Why classpath is required in a package program? Explain.
- (g) What is a programming language and what are its components?
- (h) Explain in brief about Software Simulation.
- (i) Write down any two differences between cellpadding and cellspacing.
- (j) Write down the syntax for adding a <marquee> tag in html.

2. (a) Write down the language paradigm in detail.

[4

(b) How can we pass parameter to the applet, Explain? Write a program in java which will pass Registration No, Name and Grade as a parameter and display the same using paint () method in applet.

[4

3. (a) Create a specimen of a corporate web page. Divide the browser screen into two frames. The frame on the left will be a menu consisting of two hyper links About Us and Login. Clicking on any one of these links will lead to the appropriate page which must be open in the target frame, which is on the right hand side.

[4

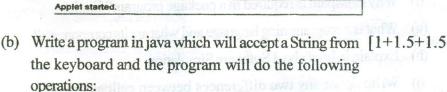
(b) Explain in brief about any four types of translator.

[4

4. (a) Write down a program in java using Grid Layout which will add 4 buttons in an applet in two rows and two column as per the following figure.

Button 2

Button 4



- (i) Check whether the string is palindrome or not.
- (ii) Count the number of words in the string.

Button 1

Button 3

5. (a) Create an html form using the following fields-

Name -textbox

Address -TextArea

Qualification - Select Option

Gender - RadioButton (Male and Female)

14

Hobbies — CheckBox Password — PasswordField Image — ImageControl

Submit —Button

(b) Draw the following picture using the methods of the Graphics [4 class.

 Image: control of the control of the

6. (a) Describe some type promotion rules that applies to expressions [2+2 in Java. Write down the output of the following programs.

```
class TypePromotion 

{
    public static void main(String args[])
    {
        byte b = 42;
        char c = 'a';
        short s = 1024;
        int i = 50000;
        float f = 5.67f;
        double d = .1234;
        double result = (f * b) + (i/c) - (d * s);
        System.out.println((f * b) + " + " + (i/c) + " - " + (d * s));
        System.out.println("result = " + result);
}
```

(3)

- (b) Define an abstract class in Java. Write a program in Java having an abstract class called Shape with a method called calculateArea(). The shape class will have three child classes named Cirlce, Triangle and Rectangle which will override the methods and display the area accordingly.
- 7. (a) Define Checked and Unchecked Exceptions in Java? Write a program in java which will accept the mark of a student from the keyboard. If the mark is less than zero or greater than 100, then the program will throw an user defined exception and catch the same using necessary catch handler and display the necessary message, otherwise the accepted mark will be displayed.
 - (b) Write a program in java having a class A. The class A will have two child classes called B and C. The class A and B will be in package p1 and class C will be in package p2. Class A has four variables with different access specifiers. Illustrate their visibility in child class with suitable example.
- 8. Write short notes on any two.

 $[4 \times 2]$

- (a) BorderLayout Manager
- (b) Firmware
- (c) Style Sheet and its types
- (d) Command Line Arguments

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