



4th Semester (Regular & Back)
WT IT-401
(IT)

SPRING END SEMESTER EXAMINATION-2014

4th Semester B.Tech

WEB TECHNOLOGY IT-401

(Regular-2012 & Back-2011, 10, 09 Admitted Batch)

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 all parts of a question should be answered at one place only.

1. a) Differentiate between get and post attribute of form tag in [2 × 10 HTML.
- b) Differentiate between String and StringBuffer in Java.
- c) What are the limitations of 'static' modifier in Java?
- d) Define syntax and semantics of a language with suitable examples.
- e) Differentiate between 'throw' and 'throws' keyword in Java.
- f) Explain any two usage of 'final' keyword in Java.
- g) What is macroprocessor and how is it used?
- h) Write the output of the following code with justification –

```
public class ab{  
    public static void main (String ag[]){  
        byte c=9;  
        c= c/3;  
        System.out.println ("Value of c is "+c);  
    } }
```

(1)

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- i) Write any four attributes of <table> tag and their purposes in HTML.
- j) What is the importance of binding time of a language?
2. a) Write a program in Java to sort the characters in alphabetical order in the user entered string. [4]
- b) What is dynamic method dispatch? Write a program in Java to illustrate it. [4]
3. a) Discuss the characteristics of a good programming language. [4]
- b) Explain any four methods of StringBuffer class with example in Java. [4]
4. a) Explain how multiple inheritance is achieved in Java with example. [4]
- b) Write a program in Java to print the uppercase of the entered lowercase character. If the user entered character is a blank then throw an user defined exception called BlankCharacterException. [4]
5. a) What is a stylesheet? Write the code for a style sheet with following effects - body background color is yellow, paragraph color is maroon, H1 color is red, font size is 20 pt. Also write the code to attach this stylesheet to a web page. [4]
- b) Design a web page using frame which will divide the page into three frames called top frame, left frame and main frame as shown below. On the top frame KIIT UNIVERSITY will be [4]

displayed in marquee. On the left frame there will be two links called a.html and b.html so that on clicking the link the corresponding page will be displayed in the main frame.



6. a) Discuss the common syntactic elements of a programming language. [4]

b) Design an applet with following fields- [4]

Roll No. -textbox
Name -textbox
Address -TextArea
Submit -Button

followed by a message "Please enter your personal details".

7. a) Explain how parameters are passed to applet with suitable example. [4]

b) In a workshop there are two types of employees- Technical and Non- technical each having unique employee ID. But only the non-technical staff get bonus on the eve of Diwali. Given an interface with three methods as earning(), deduction() and bonus(), write a class for Non-technical using class Technical and the above interface to calculate the total earning of each non-technical staff for the user entered basic salary amount. [4]

8. Write short notes on any two --

[4 × 2]

- a) Translators
- b) checkedException in Java
- c) Firmware computer
- d) Package in Java

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