

Time: 3 Hours

**DECEMBER 2013**

Max. Marks: 100

**PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.**

**NOTE: There are 9 Questions in all.**

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.1 will be collected by the invigilator after 45 minutes of the commencement of the examination.
- Out of the remaining EIGHT Questions, answer any FIVE Questions, selecting THREE questions from Part A and TWO questions from Part B. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated

**Q.1 Choose the correct or the best alternative in the following: (2×10)**

a. Which of the options does not describe the correct default values for array elements of the types indicated?

- (A) int -> 0  
(B) String -> "null"  
(C) Dog -> null  
(D) char -> '\u0000'

b. Which one of these lists contains only Java programming language keywords?

- (A) class, if, void, long, Int, continue  
(B) goto, instanceof, finally, default, throws  
(C) try, virtual, throw, final, transient  
(D) strictfp, constant, super, implements, do

c. Which three are legal array declarations? i. int [] myScores []; ii. char [] myChars; iii. int [6] myScores; iv. Dog myDogs [];

- (A) i, ii, iv  
(B) ii, iv, v  
(C) ii, iii, iv  
(D) all of these

d. Which is the valid declarations within an interface definition?

- (A) public double methoda();  
(B) public final double methoda();  
(C) static void methoda(double d1);  
(D) protected void methoda(double d1);

e. Which is a valid declarations of a String?

- (A) String s1 = null;  
(B) String s2 = 'null';  
(C) String s3 = (String) 'abc';  
(D) String s4 = (String) '\ufeed';

f. What will be the output of the program?

```
public class foo {  
    public static void main(String args[]) {  
        try {  
            return;  
        } finally {  
            System.out.println("finally");  
        }  
    }  
}
```

- (A) Finally (B) Compilation fails.  
(C) The code runs with no output (D) An exception is thrown at runtime.

g. What is the name of the method used to start a thread execution?

- (A) init(); (B) start();  
(C) run(); (D) resume();

h. Which is true about an anonymous inner class?

- (A) It cannot extend any class.  
(B) It can extend exactly one class and can implement multiple interfaces.  
(C) It can extend exactly one class or implement exactly one interface  
(D) It can implement multiple interfaces regardless of whether it also extends a class.

i. Which method must be defined by a class implementing the java.lang.Runnable interface?

- (A) void run() (B) public void run()  
(C) public void start() (D) void run(int priority)

j. Which will contain the body of the thread?

- (A) run(); (B) start();  
(C) stop(); (D) main();

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### PART A

Answer any THREE Questions. Each question carries 16 marks.

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**Q.2** a. Explain any four java language features. (8)

b. Explain different data types of java programming language. (8)

**Q.3** a. Write a program to create a class Employee and initialize three employee status. (8)

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- b. Explain the access specifiers of java language with examples. (8)
- Q.4** a. What is synchronization? (5)
- b. What is exception handling? Explain how exception handling is managed by five keywords. (5)
- c. Explain nested try statement with example. (6)
- Q.5** a. Write two ways in which character can be extracted from a string object. (2+2)
- b. Write two constructors of StringBuffer. (2+2)
- c. Explain the read and writer stream hierarchy. (8)
- Q.6** a. Write a program to create a frame with width 300 and height 200 using swings. (8)
- b. Explain briefly any four layout managers in Java. (8)

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**PART B****Answer any TWO Questions. Each question carries 16 marks.**

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- Q.7** a. Explain any five common HTML coding errors. (5)
- b. Explain the domain naming system (5)
- c. Explain the URL format (6)
- Q.8** a. Create a table of five attributes in XHTML. (4)
- b. Write pros and cons of frames. (8)
- c. Explain website architecture. (4)
- Q.9** a. Explain CGI and its Dataflow. Give example of CGI. (2+2+4)
- b. What is Javascript? Write a program in Javascript 'conversion calculator' that convert inches into respective centimeters. (2+6)