



MALLA REDDY UNIVERSITY

SoE - B. Tech CSE

II Year - I Semester Minor-I Examination

Subject: JAVA PROGRAMMING

Subject Code: MR22-1CS0101

Date: 19.10.2023

Duration: 1Hr 15 Minutes

Max. Marks: 15

Sample Paper

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Note: Answer any Three Questions. All Questions Carry Equal Marks

3 * 5 = 15M

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| 1) | <p>a) Predict the output of following Java program</p> <pre>class T { int t = 20; T() { t = 40; } } class Main { public static void main(String args[]) { T t1 = new T(); System.out.println(t1.t); } }</pre> <p>b) Evaluate the following Java expression and find the value of a , if x=3, y=5, and z=10:</p> <p>a = ++z + y - y + z + x++;</p> | 5M |
| 2) | <p>a) What will be the output of the following program? (3M)</p> <pre>public class MyFirst { public static void main(String[] args) { MyFirst obj = new MyFirst(n); } static int a = 10; static int n; int b = 5; int c; public MyFirst(int m) { System.out.println(a + ", " + b + ", " + c + ", " + n + ", " + m); } } // Instance Block { b = 30; n = 20; } // Static Block static { a = 60; }</pre> | 5M |

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| | <p>b) What will be the error of the following code? Re-write the correct code. (3M)</p> <pre> abstract class MyFirstClass { abstract num (int a, int b) { } } </pre> | |
| 3) | <p>a) Write a Java program to check weather given number is Armstrong or not?</p> <p>b) Complete the code segment to call the method print() of class School first and then call print() method of class Student.</p> <pre> //This is the class named School class School { // This is a method in class School public void print() { System.out.println("Hi! I class SCHOOL."); } } // This is the class named Student class Student { // This is a method in class Student public void print() { System.out.println("Hi! I am class STUDENT"); } } public class Question21 { public static void main(String args[]){ // Creating object of class Student // Creating object of class School // Call 'print()' method of class School // Call 'print()' method of class Student } } </pre> | 5 M |
| 4) | <p>a) Write a Java program to print below pattern.</p> <pre> 3 6 9 12 15 18 12 21 24 27 </pre> | 5 M |

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| | <p>b) This program is related to the generation of Fibonacci numbers. Re-arrange the scrambled code. For example: 0,1, 1,2, 3,5, 8, 13,... is a Fibonacci sequence where 13 is the 8th Fibonacci number.</p> <pre> import java.util.Scanner; //This package for reading input public class Fibonacci { public static void main(String args[]) { int n=s.nextInt(); //Read an integer Scanner sc = new Scanner(); System.out.println(fib(n)); //Generate and print the n-th Fibonacci number } static int fib(int n) { if (n==1) //Terminal condition return 1; else if(n==2) return 0; return fib(n - 1) + fib(n - 2); //Recursive call of function } } </pre> | |
| 5) | <p>Write a java program to print the following output: (5M)</p> <p>-----OUTPUT-----</p> <p>This is small This is medium This is large This is extra-large</p> <p>-----</p> <p>However, the code is intentionally modified. Make sure program get correct output successfully.</p> <pre> interface ExtraLarge{ static String extra = "This is extra-large"; void display(); } class Large { public void Print() { System.out.println("This is medium "); } } class Medium extends Large { </pre> | 5 M |

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| | <pre>public void Print() { System.out.println("This is small "); super.Print(); } } class Small extends Medium { public void Print() { System.out.println("This is large "); super.Print(); } } class Question43 implements ExtraLarge{ public static void main(String[] args) { Small s = new Small(); s.Print(); Question43 q = new Question43(); q.display(); } public void display(){ System.out.println(extra); } }</pre> | |
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