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Total Number of Pages: 03

B.TECH
PCS31102

3rd Semester Regular Examination 2016-17
Object Oriented Programming using JAVA

BRANCH: CSE

Time: 3 Hours

Max Marks: 100

Q.CODE:Y549

Answer Part-A which is compulsory and any four from Part-B.
The figures in the right hand margin indicate marks.

Part – A (Answer all the questions)

Q1 Answer the following questions: *multiple type or dash fill up type* (2 x 10)

a) class Campus

```
{
    public static void main(String args[])
    {
        String msg1="Hello";
        StringBuffer msg2=new StringBuffer("Hello");
        System.out.println(msg1.equals(msg2));
    }
}
```

A- false B-Hello C-True D-None of the above.

b) Which of the following statement is false?

- A. this keyword is used to call the method of same call.
- B. Subclass constructor calls super class constructor always.
- C. super keyword is used for defining interfaces.
- D. extends keyword is used for inheritance.

c) class Main {

```
    public static void main(String args[]) {
        System.out.println(fun());
    }
    int fun() {
        return 20;
    }
}
```

A-Compile time error B-20 C- fun() D- Exception.

```

d) class Test
{
    public static void main(String args[])
    {
        int x=(int)128.75;
        byte a=(byte)x;
        System.out.println(a);
    }
}

```

- A- Compile time error. B- 128. C- -128.
D- None of the above.

- e) Which is not a datatype in java?
A- int B. float C. boolean D. Long
- f) Which will legally declare, construct, and initialize an array?
A. int [] myList = {"1", "2", "3"};
B. int [] myList = (5, 8, 2);
C. intmyList [] [] = {4,9,7,0};
D. intmyList [] = {4, 3, 7};
- g) Which is a valid keyword in java?
A. interface B. String C. unsigned D. Float
- h) Which method registers a thread in a ready state?
A. run() B. sleep() C. start() D. wait()
- i) To display text on the applet.....method is used.
A. showString()B.drawString()C.println() D. printString()
- j) In System.out.println(), out is an object of class.
A. Object B. System C. PrintStream D. None of these

Q2 Answer the following questions: Short answer type (2 x 10)

- a) Write different uses of super keyword.
b) Why main() is static in java?
c) What is the difference between error and exception?
d) Write the signature of any 4 methods defined in java.awt.Graphics class.
e) What is assertion in java?
f) What is the difference between final and finally?
g) Define daemon thread.
h) What is the difference between String and StringBufferer class?
i) What is dynamic method dispatching in Java?
j) What is the significance of Object class?

Part – B (Answer any four questions)

- Q3 a) What is the difference between procedural and Object oriented programming language. Define all the features of OOPS with example. (10)**
- b) Write a Java program to take an array and calculate no of even and odd elements in the array. (5)**

- 210 210 210 210 210 210 210 210
- Q4 a)** Explain Array of Objects. Write a program to define a class Employee with variables like employe_id, employe_name and designation. Define a constructor to initialize variables and a method dispEmployeeDetails() to display details. Take details of 50 employees using an Array of employee class Objects. **(10)**
- 210 210 210 210 210 210 210 210
- b)** What is type casting? Explain different types of type casting with example. **(5)**
- Q5 a)** What is Polymorphism? Explain the difference between static and dynamic polymorphism. Give example on method overloading and method overriding each. **(10)**
- 210 210 210 210 210 210 210 210
- b)** What is inheritance? Explain with example. **(5)**
- Q6 a)** Explain wrapper classes. What is the need of wrapper classes? Write a java program for addition of 2 numbers provided the 2 nos must be taken as command line arguments. **(10)**
- 210 210 210 210 210 210 210 210
- b)** Explain autoboxing and unboxing with example. **(5)**
- Q7 a)** What is thread synchronization? What are the different ways of thread synchronization? Write a java program to explain synchronized method. **(10)**
- 210 210 210 210 210 210 210 210
- b)** Explain try block with multiple catch blocks by giving an example. **(5)**
- Q8 a)** What is difference between abstract class and interface? Explain how multiple inheritance is possible using interfaces by writing a java program as an example. **(10)**
- 210 210 210 210 210 210 210 210
- b)** Write a java program using swings to display a login screen. **(5)**
- Q9 a)** What is stream in java? What are the difference streams used in java and explain the difference between them. **(5)**
- 210 210 210 210 210 210 210 210
- b)** Write a java program to copy the content of one file to another file using character stream classes. **(5)**
- b)** Write an awt program to create a Frame and close the frame using event delegation model. **(5)**
- 210 210 210 210 210 210 210 210