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Total Number of Pages : 3

B.TECH

4th Semester Regular Examination-April-May 2019**BESES3051 OOPS through JAVA**

(Regulations 2017) Common to CIVIL/EE/EEE/MECHANICAL ENGG.

Time : 3 Hours

Maximum : 100 Marks

Answer ALL Questions

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions) 10 x 2=20 Mark**Q.1. Answer All Questions**

- a) What would be the output of the following snippet, if attempted to compile and run this code with command line argument “java abc Rakesh Sharma”? [CO 1] [PO2]
- ```
public class abc
{
 int a=2000;
 public static void main(String argv[])
 {
 System.out.println(argv[1]+" :-Please pay Rs."+a);
 }
}
```
- a) Compile time error  
b) Compilation but runtime error  
c) Compilation and output Rakesh :-Please pay Rs.2000  
d) Compilation and output Sharma :-Please pay Rs.2000
- b) How do you instantiate an array in Java? [CO 1] [PO1]
- a) int arr[] = new int(3);  
b) int arr[];  
c) int arr[] = new int[3];  
d) int arr() = new int(3);
- c) What is the output of the following program: [CO 1] [PO2]
- ```
public class testmeth
{
    static int i = 1;
    public static void main(String args[])
    {
        System.out.println(i+"", "+m(i));
        System.out.println(i);
    }
}
public void m(int i)
{
    i += 2;
}
```
- a) true b) false c) 0 d) 1 e) Hello.
- d) Which statement is not true in java language? [CO 2] [PO1]
- a) A public member of a class can be accessed in all the packages.
b) A private member of a class cannot be accessed by the methods of the same class.
c) A private member of a class cannot be accessed from its derived class.
d) A protected member of a class can be accessed from its derived class.
e) None of the above.
- e) To prevent any method from overriding, we declare the method as, [CO 2] [PO1]
- a) static b) const c) final d) abstract e) none of the above.



- f The fields in an interface are implicitly specified as,
a) static only b) protected c) private
d) both static and final e) none of the above. [CO 2] [PO1]
- g When does the ArrayIndexOutOfBoundsException occur? CO 3] [PO3]
a) Compile-time
b) Run-time
c) Not an error
d) None of the mentioned
- h All exception types are subclasses of the built-in class [CO 3] [PO3]
a) Exception b) RuntimeException (c) Error
d) Throwable e) None of the above.
- i Which of these methods can be used to output a string in an applet? [CO 4] [PO3]
a) display()
b) print()
c) drawString()
d) transient()
- j Which method is called only once during the run time of your applet? [CO 4] [PO2]
a) stop()
b) paint()
c) init()
d) destroy()

PART – B: (Short Answer Questions) 10X2=20 Marks

Q.2. Answer ALL questions

- a How java differs from C and C++? [CO 1] [PO 1]
- b Explain the architecture of JVM? [CO 1] [PO 1]
- c Describe any two methods of Scanner Class [CO1] [PO 1]
- d Write the procedure to create a package in java? [CO 2] [PO 3]
- e What are wrapper classes? [CO 2] [PO 1]
- f Explain the procedure to access interface variables? [CO 2] [PO 3]
- g What is multithreading in java? [CO 3] [PO 1]
- h Can we call run() method directly in java? [CO 3] [PO 2]
- i What is the difference between applet and java application [CO 4] [PO 1]
- j What is Java AWT? [CO 4] [PO 1]

**PART – C: (Long Answer Questions) 4X15=60 Marks****Answer ALL questions****Q.3**

- a Explain the features of OOP? [8M] [CO 1] [PO 1]
- b Write a java program factorial of a number using command line arguments. [7M] [CO 1] [PO 3]

OR

- c Explain the features of Java? [9M] [CO 1] [PO1]
- d Explain the difference of various looping statements with the help of appropriate examples. [6M] [CO 1] [PO 2]

Q.4

- a What is method overloading? How it is different from method overriding? Explain with an example. [8M] [CO 2] [PO 2]
- b What are constructors? Write down its various features and different types. Also write example for Parameterized constructor? [7M] [CO 2] [PO3]

OR

- c Write a program to implement Multiple Inheritance using Interfaces. Also explain the process? [8M] [CO 2] [PO3]
- d What are various techniques to handle Exceptions in Java? Explain with example. [7M] [CO 2] [PO 2]

Q.5

- a What is a thread? Discuss about creation of threads? [5M] [CO 3] [PO1]
- b Write a Java program to compute addition and multiplication of given matrices using threads. [10M] [CO 3] [PO3]

OR

- c Write a note on Random Access File. [8M] [CO 3] [PO1]
- d Write a program to demonstrate the use of File & data Input/ Output stream [7M] [CO 3] [PO3]

Q.6

- a Explain Event delegation. How Action Listener interface is implemented? [8M] [CO 4] [PO2]
- b Discuss about java.awt. event. Action Event class. [7M] [CO 4] [PO1]

OR

- c Discuss in detail about Applet life cycle. [8M] [CO 4] [PO1]
- d How to pass the parameters to an Applet? Explain with example. [7M] [CO 4] [PO2]

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