



Rajiv Gandhi University of Knowledge Technologies
Object Oriented Programming (E2SEM1)

Paper: EST

Time: 3 hours

Date: 03Dec 2016

Max Marks: 60

Note: Mention the answers no correctly.

Write answers according to the given marks.

SECTION-A

Attempt all4 question.

[20 Marks]

1. State true or false. [5]
 - a. init() is called after start() in applet
 - b. Declarations must appear at the start of the body of a Java method.
 - c. The "switch" selection structure must end with the default case.
 - d. Final does not prevent inheritance.
 - e. In a java program, package declaration must succeed import statements.
2. Fill in the blanks. [5]
 - a. The class string belongs to _____ package.
 - b. A(n) _____ is a piece of information passed to a method.
 - c. Input to a compiler is called_____.
 - d. The term _____ refers to a way of organizing classes that share properties.
 - e. If the computer displays an error message while executing your program, the program contains a(n) _____.
3. Multiple Choice. [5]
 - a. What will be the result of compiling following code?

```
public class MyClass{  
    public static void main(String args[]){  
        System.out.println("In first main()");  
    }  
    public static void main(char args[]){  
        System.out.println('a');  
    }  
}
```

- i. Code will not compile and will give "Duplicate main() method declaration" error

- ii. Code will compile correctly but will give a runtime exception
 - iii. Code will compile correctly and will print "In first main()" (without quotes) when it is run
 - iv. Code will compile correctly and will print "a" (without quotes) when it is run
- b.** Which of the following is Java keyword?
- i. External
 - ii. implement
 - iii. throw
 - iv. integer
- c.** Which of the following method is used to initialize the instance variable of a class.
- i. Class
 - ii. Public
 - iii. Constructor
 - iv. Destructor
- d.** Which of the following is WRONG statement with respect to rules for overriding Methods?
- i. The method name and the order of arguments should be identical to that of the superclass method.
 - ii. The return type of both the methods must be the different.
 - iii. The overriding method cannot be less accessible than the method it overrides.
 - iv. An overriding method cannot raise more exceptions than those raised by the super class.
- e.** A _____ is a sequence of bytes traveling from a source to a destination over a communication path.
- i. string
 - ii. stream
 - iii. character
 - iv. integer

4. Select the best possible association of the following. [5]

Function	Class/Package
a. add()	i. java.lang
b. init()	ii. java.awt.Container
c. actionPerformed()	iii. java.io
d. read()	iv. java.applet.Applet
e. sleep()	v. java.awt.event

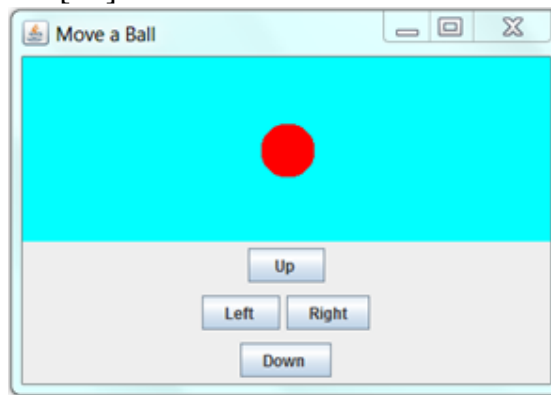
SECTION-B

Attempt **4(Four)** questions.

[40 Marks]

Question no **1** is **compulsory**

1. Answer the following question- [10]
 - a. How are Java source code files named?
 - b. What is the purpose of default constructor?
 - c. What is the difference between the Boolean & operator and the && operator?
 - d. What is meant by final class, methods and variables?
 - e. What is difference between JDK,JRE and JVM?
2. Write a java applet program to move a ball in response to up/down/left/right buttons, as shown below. [10]



3.
 - i. Explain life cycle of a Thread.Explain the procedure to create thread? [6]
 - ii. Describe the advantages of OOPs? [4]
4.
 - i. Explain various looping structure and their usage in java. [6]
 - ii. Explain the use of 'this' and 'super' keywords in java with sample code.[4]
5.
 - i. Discuss three built-in packages in java. [6]
 - ii. Define recursion and its use.Give an example. [4]
6. Write a java program to create two threads, so that, one thread will print all prime numbers whereas second thread will print all numbers divisible by 7, between 1 to 100 numbers. [10]