# 003-007302

**M.C.A.(CBCS) Sem.-III Examination**
**November-2013**
**CCA-3002 : Core Java**

**Faculty Code : 003**
**Subject Code : 007302**

**Time : 2½ Hours]** [**Total Marks : 70**

1. Answer the following multiple choice : **15**

   (1) Which of the following layout is default ?
   
   (a) CardLayout   (b) GridLayout
   
   (c) Border layout   (d) None of these

   (2) Which of the following is active control ?
   
   (a) Button   (b) Menu
   
   (c) Checkbox   (d) All of the above

   (3) Which of the following is unchecked exception ?
   
   (a) Security Exception   (b) InterruptedException
   
   (c) NoSuchFieldException   (d) None of these

   (4) Which of the following methods are not of Throwable class ?
   
   (a) printStackTrace()   (b) getCause()
   
   (c) setStackTrace()   (d) None of these

   (5) Which of the following sequence is true ?
   
   (a) Try. catch, finally   (b) Try, finally. catch
   
   (c) (a) and (b) both   (d) None of these

   (6) Which of the following is the super class for all exception classes ?
   
   (a) Runtime Exception   (b) Error
   
   (c) Throwable   (d) None of these

(7) Which of the following is true in interface ?

    (a) Can create the reference of it

    (b) Can declare the variable

    (c) Can extend another interface

    (d) All of the above

(8) Which of the following is false ?

    (a) Overloading can be possible only in one class

    (b) Overriding can be possible only in one class

    (c) (a) and (b) both

    (d) None of these

(9) Which of the following are not the class in Java ?

    (a) String           (b) System

    (c) Class           (d) None of these

(10) In System.out.println(). which of the following is an object ?

    (a) System       (b) System.out

    (c) println        (d) None of these

(11) Which of the following is comment ?

    (a) //             (b) /* */

    (c) (a) and (b) both    (d) None of these

(12) Consider box is a class then box bl will create

    (a) An object      (b) A reference

    (c) (a) and (b) both    (d) None of these

(13) Which of the following is false in Java ?

    (a) A constructor can not take the object of the same class as a parameter.

    (b) Constructor can not be overloaded

    (c) (a) and (b) both

    (d) None of these

(14) Which of the following is true with respect to static method ?

    (a)   Can call only other static method

    (b)   Must only access static data

    (c)   (a) and (b) both

    (d)   None of these

(15) Which of the following is not the method of Object class ?

    (a)   wait()           (b)   fmalize()

    (c)   notifyAll()      (d)   None of these

2.    Attempt any **five** of the following :          15

    (1)   Write a Java program that will read a string from the keyboard and convert it into lower case and print both the string.

    (2)   List the different methods available in Object class and explain any one of them.

    (3)   What is CLASSPATH ? Explain its utility with suitable example.

    (4)   Write short note on interface.

    (5)   Explain the statement : "public static void main(String a[]);

    (6)   How the parameters (primitive/non primitive) are passed to the constructor ? Explain in brief.

3.    Attempt any **three** of the following :        15

    (1)   Write a Java program that will read a text file from the command prompt and copy it into another file accept the name from the command prompt.

    (2)   Briefly explain Grid layout.

    (3)   Explain the life cycle of any applet.

    (4)   Write short note on synchronization.

Attempt any **two** of the following :                                             **15**

(1) Write a Java applet that will print your name when you pressed the left button of the mouse, use adapter class to write the program.

(2) Write a Java program to create your own exception and implement it in the another program.

(3) Explain the menu in detail with suitable example.

Attempt any **one** of the following :                                             **10**

(1) Explain event delegation model in Java ? List the different listener interface supported by Java and explain each listener with its methods in brief.

(2) What is access specifier ? List and explain it with example with respect to package.

**MCA (CBCS) (Sem. III) Examination**
**November-2012**
**CCA – 3002 : Core Java**

**Faculty Code : 003**
**Subject Code : 007302**

Time : 3 Hours]                                                                                    [Total Marks : 70

1.   Answer the following multiple choice questions :                                         (15)

   (1)   In Java which of the following is false ?

      (a)   String is a class.

      (b)   Java supports a boolean as data type.

      (c)   Java is a platform independent language.

      (d)   None of these

   (2)   Which of the following comment is not supported by Java ?

      (a)   /* ... */

      (b)   //

      (c)   /** */

      (d)   None of these

   (3)   Which of the following inheritance is not supported by Java ?

      (a)   multilevel

      (b)   multiple

      (c)   Hierarchical

      (d)   None of these

   (4)   _____ keyword is used to invoke the constructor of super class.

      (a)   Define

      (b)   Final

      (c)   Super

      (d)   None of these

   (5)   Which of the following class become automatically super class of each class ?

      (a)   Class

      (b)   Object

      (c)   (a) and (b) both

      (d)   None of these

(6)   42.25% 10 =_____

   (a)   .25

   (b)   25

   (c)   2.25

   (d)   None of these

(7)   Which of the following is not a valid access specifier ?

   (a)   Public

   (b)   Private

   (c)   General

   (d)   None of these

(8)   Which of the following member can not accessed in sub class of super class ?

   (a)   Public

   (b)   Protected

   (c)   Private

   (d)   None of these

(9)   Which of the following are not the method of Object class ?

   (a)   Notify()

   (b)   ToString()

   (c)   Clone()

   (d)   None of these

(10)   Which of the following is true ?

   (a    A class can be declared as final.

   (b)   A method can be declared as final.

   (c)   An instance variable can be declared as final.

   (d)   All of the above.

(11)   Which of the following is not true ?

   (a)   Package statement must be the first statement in the program.

   (b)   Import statement may occur any position in the program.

   (c)   Package and import statement can not exists together in the program at any time.

   (d)   All of the above

(12) Which of the following is the top level class in exception hierarchy ?

    (a)   Runtime Exception

    (b)   Error

    (c)   Throwable

    (d)   None of these

(13) Which of the following is false in try ?

    (a)   It may have more than one catch.

    (b)   It may have more than one finally.

    (c)   It must have at least one try or finally.

    (d)   All of the above.

(14) _____ is used to receive the exception.

    (a)   Throw

    (b)   Throws

    (c)   Catch

    (d)   None of these

(15) Which of the following is checked exception ?

    (a)   ClassNotFoundException

    (b)   ArithmeticException

    (c)   ArrayIndexOutOfBoondsException

    (d)   All of the above

2. Attempt any **five** of the following :            **(15)**

    (a)   Explain utility of CLASSPATH environment variable.

    (b)   What is access specifier ? List the different access specifier supported by Java.

    (c)   Define: class, method and object.

    (d)   What is overriding ? Briefly explain.

    (e)   Explain in brief nesting of class.

    (f)   Explain the utility of final key word in Java.

3. Attempt any **three** of the following :            **(15)**

    (a)   What is exception ? List Java's unchecked exception and explain any one of them.

    (b)   Briefly explain abstract class with suitable example.

    (c)   What is inheritance ? List the different kind of inheritance supported by Java.

    (d)   What is ByteStream ? Explain InputStream and OutputStream with suitable example.

4. Attempt any **two** of the following : (15)

(a) Write a Java program that will read a text file and toggle the character of the file and print it on the screen.

(b) What is layout ? Explain card layout with suitable example.

(c) What is an applet ? Explain life cycle of applet with suitable example.

5. Attempt any **one** of the following : (10)

(a) Explain event delegation model in brief.

(b) Write a Java applet that perform the following:

```
Input string : _____

Output


  | Reverse | Count | Caps | Exit |
```

Input the string and perform as follow :

– Clicking on reverse button will reverse the inputted string in the output box

– Clicking on count will count the number of small characters and display the count in output box.

– Clicking on caps will convert the inputted string into capital and display in the output box.

003-007302

M. C. A. (CBCS) (Sem. III) Examination

November – 2011

MCA-3002 : Core Java

Faculty Code : 003

Subject Code : 007302

Time : 3 Hours] [Total Marks : 70

Instruction : Write answer of all questions in main answer sheet.

1 Answer the following multiple choice questions : 15

(i) What makes a Thread to stop execution.

(a) An interrupted exception is thrown

(b) Invoke sleep () method

(c) Higher priority thread takes over

(d) While a thread does a read () using inputstream

(ii) Which of the following will throw a NullPointerException?
String s = null;

(a) if((s==null)&&(s.length()>0))

(b) if((s!=null)&&(s.length()>0))

(c) if ((s==null) ‖ (s.length ()==0))

(d) if((s==null) ‖ (s.length() >0))

(iii) Which of the following describes a fully encapsulated class ?

(a) Methods cannot be private

(b) Variables cannotbe be private

(c) Even doesn't have constructor

(d) All variables are private.

(iv) What is the output of the following program

```
public class Example {

private int i;

public static void main (String args[]) {

    method ();

}

public static void method () {

    int j;

    j=1;

    System.out.println("The value of i is"+i);

}

}
```

(a) The program prints The value of i is 0;

(b) The program gives a compilation error. By changing the private int i to public int i the problem gets resolved.

(c) The program gives a compilation error. By changing the private int i to private static int i the problem gets resolved.

(d) The program gives a run-time error.

(v) What is the constructor argument for the FilterInputStream

    (a) InputStream

    (b) DataInputStream

    (c) BufferedReader

    (d) InputStreamReader

(vi) What is the modifier for all the listener methods

    (a) private

    (b) default (no access modifier specified)

    (c) protected

    (d) public

(vii) What is the correct declaration of an abstract method ?

    (a) public abstract method ();

    (b) public void abstract method ();

    (c) public final abstract void method ();

    (d) public abstract void method ();

(viii) What does >> and >>> denotes

    (a) >> is right shift >>> is round

    (b) >> is signed right shift >>> round

    (c) >> is signed shift and >>> is unsigned shift

    (d) >> is unsigned >>> is unsigned

(ix)  What is the body of a Thread ?

  (a)  run

  (b)  begin

  (c)  execute

  (d)  start

(x)  Panel is a method of which class ?

  (a)  Applet

  (b)  Adapter

  (c)  Component

  (d)  Graphics

(xi)  If a class member variable is initialized and the value is not be changed at all, what is the modifier to be used during the declaration of the variable ?

  (a)  const

  (b)  public

  (c)  static

  (d)  final

(xii)  What is the illegal identifiers in Java ?

  (a)  $employee

  (b)  employ_ee

  (c)  employee1

  (d)  _employee

(xiii) What is the default size in pixels between the components of a flow layout ?

    (a)  5

    (b)  8

    (c)  10

    (d)  15

(xiv) Which is the access specifier used with finalize method ?

    (a)  private

    (b)  protected

    (c)  public

    (d)  private protected

(xv) An IOException needs to be thrown in some method of a program. Select the correct expression for the raising an exception.

    (a)  new Exception();

    (b)  throw Exception ();

    (c)  throw new Exception ();

    (d)  throws new Exception ();

2    Attempt **any five** of the following :                                15

   (i)    Explain garbage collector.

   (ii)   Explain access modifiers in java.

   (iii)  Give the difference among final, finally and finalize.

   (iv)   What is interface ? Explain extending and implementing interface.

   (v)    What is an exception ? Explain in brief.

   (vi)   What is difference between java application and applet ?


3    Attempt **any three** of the following :                               15

   (i)    Explain Features of Java in detail.

   (ii)   Explain package in detail with suitable example. What is the important of CLASSPATH ?

   (iii)  Explain Event Delegation Model in detail.

   (iv)   Explain Applet life cycle.


4    Attempt **any two** of the following :                                 15

   (i)    Create an applet to draw a face with blinking eyes.

   (ii)   Create an applet which consist three scroll bar with range 0 to 255. Based on the values of the scroll bars the background color should be changed.

   (c)    Write a program to concatenate two files into a third file. Also display the concatenated file on screen.

5   Attempt any one of the following :                              10

(i)   What is thread ? Explain Thread Life Cycle by giving a suitable example. Also explain thread synchronization and daemon threads.

(ii)  List out AWT controls and explain any five in detail.

———————