

**BRAINWARE UNIVERSITY****Term End Examination 2020 - 21****Programme – Bachelor of Technology in Computer Science & Engineering****Course Name – Object Oriented Programming****Course Code - PCC-CS502****Semester / Year - Semester V**

Time allotted : 85 Minutes

Full Marks : 70

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

**Group-A**

(Multiple Choice Type Question)

1 x 70=70

1. *(Answer any Seventy)*

(i) Byte code of Java is -

- |                           |                         |
|---------------------------|-------------------------|
| a) platform dependent     | b) platform independent |
| c) Architecture dependent | d) depend on OS         |

(ii) Which of the following is not OOP concept in Java?

- |                  |                |
|------------------|----------------|
| a) Encapsulation | b) Inheritance |
| c) Polymorphism  | d) Compilation |

(iii) What is JVM?

- |                |              |
|----------------|--------------|
| a) Bootstrap   | b) Extension |
| c) Interpreter | d) Compiler  |

(iv) Java Virtual Machine is

- |                         |                                     |
|-------------------------|-------------------------------------|
| a) Platform dependent   | b) OS independent                   |
| c) Platform independent | d) Machine architecture independent |

(v) Which feature of OOP illustrated the code reusability?

- |                 |                  |
|-----------------|------------------|
| a) Polymorphism | b) Inheritance   |
| c) Abstraction  | d) Encapsulation |

(vi) Which statement is true about Java?

- a) Platform independent
- b) Platform dependent
- c) Code dependent
- d) Sequence dependent

(vii) If two methods have same name but different parameters then it is called \_\_\_\_\_

- a) Method overriding
- b) Method overloading
- c) Operator overloading
- d) None of these

(viii) \_\_\_\_\_ constructor is called when object of a particular class is created.

- a) Default
- b) Copy
- c) Parameterized
- d) None of these

(ix) Constructor can be overloaded ?

- a) Never
- b) partially
- c) depend on user
- d) None of these

(x) DataInputStream class in java resides in

- a) java.io
- b) java.applet
- c) java.util
- d) java.net

(xi) What is the output of the following code fragment? `int x=3, y=10; System.out.print(y%x);`

- a) 0
- b) 1
- c) 2
- d) 3

(xii) The constructor is always -

- a) private
- b) public
- c) protected
- d) All of these

(xiii) Scanner class in java resides in

- a) java.io
- b) java.applet
- c) java.util
- d) java.net

(xiv) Which of these operators is used to allocate memory for an object?

- a) malloc
- b) alloc
- c) new
- d) free

(xv) Which method can be defined only once in a program?

- a) main method
- b) static method
- c) finalize method
- d) private method

(xvi) When method overloading is determined?

- a) run time
- b) compile time
- c) coding time
- d) execution time

(xvii) Which of the following is a type of polymorphism in Java?

- a) Compile time polymorphism
- b) Execution time polymorphism
- c) Multiple polymorphism
- d) Multilevel polymorphism

(xviii) Which modifier is the default one when there is nothing mentioned explicitly?

- a) friendly
- b) public
- c) private
- d) protected

(xix) Arrays in Java are implemented as

- a) Class
- b) Variable
- c) Object
- d) None of these

(xx) Which keyword is used by the method to refer to the object that invoked it?

- a) import
- b) abstract

c) catch

d) this

(xxi) Which of the following statements is false?

a) default constructor is called at the time of object declaration

b) finalize( ) method is called when a object goes out of scope and is no longer needed

c) constructor can be parameterized

d) finalize( ) method must be declared protected

(xxii) What is the return type of constructors?

a) int

b) no return type

c) float

d) None of these

(xxiii) Which method of class StringBuffer is used to concatenate the string representation to the end of string?

a) concat( )

b) join( )

c) append( )

d) concatenate( )

(xxiv) Which method of class String is used to remove leading and trailing whitespaces?

a) trim( )

b) doTrim( )

c) replace( )

d) startsWith( )

(xxv) What is the range of byte data type in Java?

a) -128 to 127

b) -32768 to 32767

c) -2147483648 to 2147483647

d) None of these

(xxvi) Which keyword is used to avoid modification of a variable?

a) final

b) constant

c) last

d) static

(xxvii) Which one is true of final class?

- a) Final class cannot be instantiated
- b) Final class cause runtime failure
- c) Final class cause compilation failure
- d) Final class cannot be inherited

(xxviii) What is the value stored in x in the following lines of Java code? int x, y, z; x = 0; y = 1; x = y = z = 8;

- a) 0
- b) 9
- c) 1
- d) 8

(xxix) The process by which we can control what parts of a program can access the members of a class?

- a) Polymorphism
- b) Encapsulation
- c) Abstraction
- d) Recursion

(xxx) Which class is used to create an object whose character sequence is mutable?

- a) String( )
- b) String( ) &StringBuffer( )
- c) StringBuffer( )
- d) None of these

(xxxii) Which operator can be used to concatenate two or more String objects?

- a) +
- b) &
- c) +=
- d) ||

(xxxii) Which is a necessary condition for automatic type conversion in Java?

- a) The destination type is smaller than source type
- b) The destination type is larger than source type
- c) The destination type can be larger or smaller than source type
- d) None of these

(xxxiii) Which method of class String is used to check whether a given object starts with a particular string literal?

- a) startsWith( )
- b) Starts( )
- c) endsWith( )
- d) ends( )

(xxxiv) If a method with same name can perform more than one type of tasks is \_\_\_\_\_ feature of OOP?

- a) Encapsulation
- b) Inheritance
- c) Polymorphism
- d) Abstraction

(xxxv) If different properties and functions of a real world entity is grouped into a single entity is called

- a) Inheritance
- b) Abstraction
- c) Polymorphism
- d) Encapsulation

(xxxvi) What is the return type of Math.random( ) method?

- a) Integer
- b) String
- c) Double
- d) Boolean

(xxxvii) The feature by which one object can interact with another object is \_\_\_\_\_

- a) Data transfer
- b) Data binding
- c) Message passing
- d) Message reading

(xxxviii) The feature where - if same message is passed to objects of several different classes and all of those can respond in a different way is

- a) Inheritance
- b) Polymorphism
- c) Overloading
- d) Overriding

(xxxix) Which among the following best describes an encapsulation?

- a) It is a way of combining various data members into a single unit
- b) It is a way of combining various member functions into a single unit
- c) It is a way of combining various data members and member functions into a single unit which can operate on any data
- d) It is a way of combining various data members and member functions that operate on those data members into a single unit

(xl) Which of the following is false?

- a) It is necessary to use new operator to initialize an array
- b) Array can be initialized using comma separated expressions surrounded by curly braces
- c) Array can be initialized when they are declared
- d) None of these

(xli) Which one is a valid declaration of a boolean?

- a) boolean b1 = 1;
- b) boolean b2 = 'false';
- c) boolean b3 = false;
- d) boolean b4 = 'true'

(xlii) What is true about break statement?

- a) Break stops the execution of entire program
- b) Break halts the execution and forces the control out of the loop
- c) Break forces the control out for specific iteration and starts the execution of next iteration
- d) Break halts the execution of the loop for certain time frame

(xliii) What happens if constructor of class A is made private?

- a) Any class can instantiate objects of class A
- b) Objects of class A can be instantiated only within the class where it is declared
- c) Inherited class can instantiate objects of class A
- d) Classes within the same package as class A can instantiate objects of class A

(xliv) Which of these cannot be declared static?

- a) Class
- b) Variable
- c) Object
- d) Method

(xlv) What will be the output of the following Java program? class Output {  
public static void main(String args[]) { int a1[] = new int[10]; int a2[] = {1, 2,  
3, 4, 5}; System.out.println(a1.length + " " + a2.length); } }

- a) 10 5
- b) 0 10

c) 5 10

d) 0 5

(xlvi) Which of these keywords is used to prevent content of a variable from being modified?

a) final

b) constant

c) last

d) static

(xlvii) What is true of final class?

a) Final class cannot be instantiated

b) Final class cause runtime failure

c) Final class cause compilation failure

d) Final class cannot be inherited

(xlviii) What will be the output of the following Java program? class  
string\_demo { public static void main(String args[]) { String obj="I" + "like"  
+"Java"; System.out.println(obj); } }

a) I

b) IlikeJava

c) like

d) None of these

(xlix) What will be the output of the following Java program? class  
String\_demo { public static void main(String args[]) { char chars[]={ 'a', 'b', 'c' };  
String s =new String(chars); System.out.println(s); } }

a) abc

b) Compilation error

c) a

d) None of these

(l) How many arguments can be passed to main( ) method?

a) One

b) Many

c) Two

d) Three

(li) Which of these packages contain all the Java's built in exceptions?

a) java.io

b) java.lang

c) java.util

d) java.net



(lii) Abstraction gives higher degree of \_\_\_\_\_

- a) Class usage
- b) Idealized interface
- c) Program complexity
- d) Unstable interface

(liii) Which feature of OOP promotes code reusability?

- a) Polymorphism
- b) Inheritance
- c) Abstraction
- d) Encapsulation

(liv) finally block runs in which condition?

- a) always
- b) never
- c) when exception occurs
- d) depends

(lv) A package is a collection of

- a) Related classes
- b) Related interfaces
- c) Both Related classes & Related interfaces
- d) None of these

(lvi) Which among the following best defines abstraction?

- a) Hiding the implementation
- b) Showing the important data
- c) Hiding the important data
- d) Hiding the implementation and showing only the features

(lvii) Which is not type of inheritance?

- a) Single inheritance
- b) Double inheritance
- c) Hierarchical inheritance
- d) Multiple inheritance

(lviii) What would be the result if a class extends two interfaces and both have a method with same name and signature, assuming the class is not implementing that method?

- a) Runtime error
- b) Code runs successfully
- c) Compile time error
- d) First called method is executed

successfully

(lix) If a class inheriting an abstract class does not define all of its methods then it will be known as .....

- a) Abstract class
- b) Static class
- c) A simple class
- d) None of these

(lx) Which of the following is incorrect about packages?

- a) Package defines a namespace in which classes are stored
- b) Java uses file system directories to store packages
- c) A package can contain other package within it
- d) A package can be renamed without renaming the directory in which the classes are stored

(lxi) Which of these methods gets executed first before execution of any other thing takes place in a program?

- a) non static method
- b) finalize method
- c) static method
- d) private method

(lxii) The Date class includes within ..... package.

- a) java.io
- b) java.util
- c) java.awt
- d) java.net

(lxiii) Exceptions can be

- a) syntax error
- b) Run time error
- c) Compile time error
- d) Both Run time error & Compile time error

(lxiv) For one try block there can be

- a) Only one catch block
- b) Only two catch blocks
- c) Multiple catch blocks
- d) No catch block

(lxv) The suspend() and resume() methods are used to perform-

- a) deadlock
- b) inter thread communication
- c) synchronization
- d) All of these

(lxvi) The wait() and notify() methods are used to perform-

- a) deadlock
- b) inter thread communication
- c) synchronization
- d) All of these

(lxvii) Stack overrun is

- a) error
- b) exception
- c) virus
- d) worm

(lxviii) Which of this method is used to execute a thread?

- a) run( )
- b) runThread( )
- c) start( )
- d) startThread( )

(lxix) When Exceptions in java arises?

- a) Run Time
- b) Can Occur Any Time
- c) Compilation Time
- d) None of these

(lxx) Which of these keywords is used to manually throw an exception?

- a) try
- b) throw
- c) finally
- d) catch