BRAINWARE UNIVERSITY

Term End Examination 2022
Programme – B.Tech.(CSE)-2018/B.Tech.(CSE)-2019/B.Tech.(CSE)-2020
Course Name – Object Oriented Programming
Course Code - PCC-CS502
(Semester V)

Full Marks : 60   Time : 2:30 Hours

[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 15=15

1.   *Choose the correct alternative from the following :*

(i)   State which of these packages contain classes and interfaces used for input & output operations of a program?

a) java.net   b) java.io
c) java.lang   d) All of these

(ii) Identify the correct ordering for the import, class and package declarations when found in a single file?

a) package, import, class   b) class, import, package
c) import, package, class   d) package, class, import

(iii) In JAVa 'Array, implemented as

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

(iv) In JAVA Byte code is

a) Platform dependent   b) Platform independent
c) Architecture dependent   d) depend on OS

(v)   JVM means

a) Java Virtual Machine   b) Java Virtual Methods
c) Java Virtual Method   d) Java Versatile Machine

(vi) In Java source codes are converted into _____

a) Byte code   b) Machine code
c) Bit code   d) None of these

(vii) In JAVA 'Abstraction' means

a) Showing unnecessary details   b) Hiding unnecessary details
c) Both Showing unnecessary details & Hiding   d) None of these
   unnecessary details

(viii) The feature(s) of OOP in Java

a) Encapsulation   b) Inheritance
c) Polymorphism   d) All of these

(ix) _____ is a contiguous group of same or related data items, has a common name.

C :

a) Variable 　　　　　　　　　　　b) Constant
c) Array 　　　　　　　　　　　　d) None of these

(x) _____ class is used for string operations in JAVA

a) final class 　　　　　　　　　　b) start class
c) abstract class 　　　　　　　　d) string class

(xi) ____ is a method that initializes an object immediately upon creation. It has the same name as that of class in which it resides.

a) finalize 　　　　　　　　　　　b) class
c) delete 　　　　　　　　　　　　d) constructor

(xii) Select the method is used to delete object in Java.

a) finalize( ) 　　　　　　　　　　b) main( )
c) delete( ) 　　　　　　　　　　　d) None of these

(xiii) Apply method of class String is used to remove leading and trailing whitespaces.

a) trim( ) 　　　　　　　　　　　　b) doTrim( )
c) replace( ) 　　　　　　　　　　d) startsWith( )

(xiv) Evaluate, _____ that the following is used to store command line arguments?

a) int array 　　　　　　　　　　　b) String array
c) Stack 　　　　　　　　　　　　　d) Integer

(xv) Find the method of class String is used to extract a substring from a String object?

a) substring( ) 　　　　　　　　　b) stringSub
c) String( ) 　　　　　　　　　　　d) None of these

Group-B
(Short Answer Type Questions) 　　　　　　　　　　3 x 5=15

2. What is an exception? What are the categories of exceptions? explain. (3)
3. What is method Overloading. Write a program to describe method overloading. (3)
4. Describe the difference between procedural programming and object oriented programming. (3)

OR

Describe main features of OOP. (3)

5. Differentiate between Single and multilevel Inheritance. (3)

OR

Write what is polymorphism? Explain with example. (3)

6. Define constructor. explain with example. (3)

OR

Explain the Interface in Java. with example. (3)

Group-C
(Long Answer Type Questions) 　　　　　　　　　　5 x 6=30

7. Describe the types of variables with example in object oriented programming. (5)
8. Explain the list of control statements used in java. Also describe the syntax of the control statements with suitable illustration. (5)
9. Explain the role of priorities in multithreading. What are its limitations? (5)
10. Analyze that how is an abstract class different from an interface with example? (5)
11. Create three classes with names Shape, Rectangle and Circle and make use of the functions getdata(), printdata(), and area(). To find the area of circle and rectangle, which type of inheritance is suitable? Why? Explain? (5)
12. Explain the Compile time Polymorphism and how is it different from Runtime Polymorphism (5)

OR

Explain the various types of constructors in object-oriented programming? Is it always necessary to create objects from class? (5)

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