BRAINWARE UNIVERSITY

Term End Examination 2022
Programme – Dip.CSE-2018/Dip.CSE-2019/Dip.CSE-2020
Course Name – Java
Course Code - DCSE504
(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) _____ is used to find and fix bugs in the Java programs.

a) JVM   b) JRE
c) JDK   d) JDB

(ii) Identify which of the following loops will execute the body of loop even when condition controlling the loop is initially false?

a) do-while   b) while
c) for   d) None of these

(iii) If two methods have same name but different parameter list then it is called_____

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

(iv) Select what is the return type of a method that does not return any value?

a) int   b) void
c) float   d) double

(v) Examine if the process of defining a method in terms of itself, that is a method that calls itself?

a) private   b) protected
c) public   d) None of these

(vi) Select what does boolean variable in java stores

a) 12   b) True or Flase
c) 1   d) None of these

(vii) Identify which method is called first by an applet program?

a) \"start( )   b) run( )
c) init( )   d) begin( )

(viii) Select what is the return value of int

a) int   b) char
c) boolean   d) nothing

(ix) Predict the feature by which one object can interact with another object is

a) Data transfer   b) Data binding

c) Message passing   d) Message reading

(x) Select which of the following is not a Java features?

a) Dynamic   b) Architecture Neutral

c) Use of pointers   d) Object-oriented

(xi) Select which of these method of String class is used to obtain character at specified index?

a) Charat( )   b) charat( )

c) charAt( )   d) char( )

(xii) Select which of these methods can be used to writing console output?

a) print( )   b) write( )

c) println( )   d) All of these

(xiii) Produce which method is called internally by Thread start() method?

a) execute()   b) run()

c) launch()   d) main()

(xiv) Select which feature of OOP illustrated the code reusability?

a) Polymorphism   b) Inheritance

c) Abstraction   d) Encapsulation

(xv) Select which of the following is not a type of class?

a) final Class   b) start Class

c) abstract Class   d) string Class

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

2. Explain what is meant by Interface?   (3)

OR

   Explain what is meant by Abstract class?   (3)

3. Explain why Java is not 100% Object-oriented?   (3)

OR

   Explain what are wrapper classes in Java?   (3)

4. Explain when can you use the super keyword?   (3)

OR

   Explain what is default constructor?   (3)

5. Explain the term Exception Handling in Java.   (3)

OR

   Explain what is the difference between exception and error in Java?   (3)

6. What is the difference between finally, final, and finalize in Java?Explain with an example.   (3)

OR

   Give me some examples of checked exceptions.   (3)

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

7. Define the keywords public static void main used in Java. Write a Program in Java to find   (5)
    the sum and Average of three numbers.

8. Explain using sample code the concept of method overloading in Java   (5)

OR

   Compare how method overloading is different from method overriding in Java ?   (5)

9. Explain what is compile time polymorphism?   (5)

OR

   Develop a program in Java to illustrate the concept of multi-level inheritance   (5)

10. Distinguish between Static,Instance and Local variables in Java with proper code.   (5)

OR

Explain why is method overloading not possible by changing the return type in java? (5)

11. Explain what is the final variable with proper code? (5)

OR

Explain the Life Cycle of Thread, (5)

12. Write a Java Program to remove spaces from the string entered by user. (5)

OR

Write a Java program to predict duplicate characters in string. (5)

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