D-2010   Seat No. _____

M. C. A. (Sem. II) Examination

July - 2022

MCA2010 : Object Oriented Programming Using Java

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

1   (a)   Attempt the following questions :   **4**

    (1)   _____ inbedtance in not supported by Java.

    (2)   _____ keywords used to prevent class to be a super class.

    (3)   In Java objects are always passed to method by _____.

    (4)   _____ features of OOP that hides the data from the outside entity.

  (b)   Attempt any **one** of the following questions :   **2**

    (1)   Explain finalize() in brief.

    (2)   What is object?

  (c)   Attempt any **one** of the following questions :   **3**

    (1)   List the characteristics of OOP.

    (2)   Differentiate overloading Vs overriding.

  (d)   Attempt any **one** of the following questions :   **5**

    (1)   List the five methods name of String class and explain its with suitable example.

    (2)   Explain public static void main() in detail.

2   (a)   Attempt the following questions :   **4**

    (1)   Nesting of try is possible. (True/Fasle)

    (2)   _____ exception class is used to catch the mathematical exception.

    (3)   In try..catch, _____ block is executed in any situation.

    (4)   Catch within catch is possible (True/False)

(b) Attempt any **one** of the following questions :   2

(1) What is exception?

(2) What is package?

(c) Attempt any **one** of the following questions :   3

(1) Write a java program that will create an interface named "ok", which consists three methods i.e. good, saras and fine. Which is returning nothing and does not have any parameters.

(2) Explain with example the use of throws.

(d) Attempt any **one** of the following questions :   5

(1) Write a java program that illustrate the use of division by zero error and handle it with appropriate exception.

(2) Explain in detail the access specifier with respect to package.

3 (a) Attempt the following questions :   4

(1) The life of the thread starts from _____ method.

(2) _____ class is used to create the thread.

(3) _____ suspend a thread for a period of time.

(4) A thread that has completed the execution is called _____.

(b) Attempt any **one** of the following questions :   2

(1) Explain isAlive() in brief.

(2) Explain join() in brief.

(c) Attempt any **one** of the following questions :   3

(1) List the various states of thread.

(2) Explain the usage of synchronized statement.

(d) Attempt any **one** of the following questions :   5

(1) What is synchronization? Explain synchronization method with suitable example.

(2) What is dead lock? Explain it with suitable example.

4 (a) Attempt the following questions :   4

(1) _____ method is the last method which is executed in applet life cycle.

(2) init() method of the Applet class evaluated only once. (True/False)

(3) _____ class is the parameter of paint method.

(4) _____ package is required for applet.

(b) Attempt any **one** of the following questions :　　　　2

(1) What is adapter class? Explain in brief.

(2) What is listenere? Explain in brief.

(c) Attempt any **one** of the following questions :　　　　3

(1) List the various of methods of applet. Explain each of them in brief.

(2) Explain applet tag with its all parameters.

(d) Attempt any **one** of the following :　　　　5

(1) Write an applet to draw a line between two points.

(2) Write an applet to show the keydown message in status line.

5 (a) Attempt the following questions :　　　　4

(1) Array in java.sql is a class. (true/fasle)

(2) commit is the method of _____.

(3) JDBC stands for

(4) TO execute the stored procedure _____ statement is used.

(b) Attempt any **one** of the following questions :　　　　2

(1) Only list the different types of drivers.

(2) Differentiate ODBC Vs JDBC.

(c) Attempt any **one** of the following :　　　　3

(1) List the steps to create JDBC code.

(2) List the exceptions supported in JDBC.

(d) Attempt any **one** of the following questions :　　　　5

(1) Write a java program that will create a table name "saru" with no(int), name(varchar) in the data base named "goodluck".

(2) Write a java program that will insert a record a table name "saru" with no(int), name(varchar) in the data base named "goodluck".

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