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

November / December – 2017

P3010 : Core Java

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

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

    (1) Explain "this"

    (2) What is constructor ?

    (3) Define Abstract class.

    (4) What is multi level inheritance ?

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

    (1) Define overriding

    (2) What is final ? Explain its usages

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

    (1) Briefly explain Object class.

    (2) Explain public static void main()

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

    (1) How parameters can be pass to the method? List all the methods. Explain any one of them with suitable example.

    (2) What is access specifier ? List and explain it in detail.

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

    (1) Define CLASSPATH

    (2) Explain import.

    (3) Name two java built in exception class.

    (4) What is checked exception ?

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

    (1) What is throw ? Explain it with suitable example.

    (2) Differentiate throw Vs throws

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

    (1) What is finally ? Explain it with suitable example.

    (2) Explain try-catch block with suitable example.

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

    (1) What is package ? Discuss the access specifier with respect to package in detail.

    (2) What is exception handling ? Write a Java program to catch an exception created by division by 0.

3 (a) Attempt the following : **4**

    (1) List the state of thread.

    (2) Name the method, how thread can be created.

    (3) Explain join()

    (4) What is wait ?

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

    (1) Explain sleep( ) method in detail.

    (2) Explain the use of synchronize statement.

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

    (1) What is synchronization ? Explain in brief.

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

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

    (1) Explain the thread life cycle in detail.

    (2) Write a java program to create the thread of two process i.e. sum and average of the array of size n.

4 (a) Attempt the following :   4

        (1) What is listener ?

        (2) What is an event ?

        (3) Explain line control of AWT.

        (4) What is appletviewer ?

   (b) Attempt any one of the following :   2

        (1) Explain applet tag.

        (2) Only list the component of delegation event model.

   (c) Attempt any one of the following :   3

        (1) Explain the class hierarchy for applet.

        (2) What is inner class ? Explain it utility.

   (d) Attempt any one of the following :   5

        (1) Explain life cycle of applet.

        (2) Create a java applet that will display the banner of your name.

5 (a) Attempt the following :   4

        (1) What is stream in Java ?

        (2) List the constructors of Label.

        (3) What is Byte Stream ?

        (4) What is character stream ?

   (b) Attempt any one of the following :   2

        (1) Name four classes of Byte Stream.

        (2) Explain console class in brief.

   (c) Attempt any one of the following :   3

        (1) Write a Java program to copy the one file to the another file.

        (2) Write a Java program that will take the input from the keyboard and print it on the screen.

   (d) Attempt any one of the following :   5

        (1) What is layout manager ? List the different layout supported by Java. Explain any one of them.

        (2) Explain checkbox and checkbox Group with suitable example.