MBF-003-1014010   Seat No. _____

B. Sc. (Sem. IV) (CBCS) Examination

March / April - 2018

CS - 401 : Computer Application

(Programming with Java)

(New Course)

Faculty Code : 003

Subject Code : 1014010

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

1   (A)   Attempt following questions :   4
       (1)   Full form of JDK.
       (2)   Full form of JVM.
       (3)   Full form of JRE.
       (4)   Full form of OOP.

   (B)   Answer in brief : (Any **one** out of two)   2
       (1)   Define array in java.
       (2)   List data types used in Java.

   (C)   Answer in detail : (Any **one** out of two)   3
       (1)   Explain features of Java.
       (2)   Explain JDK components.

   (D)   Write notes on : (Any **one** out of two)   5
       (1)   Explain decision statements in Java.
       (2)   Explain Command Line Argument in Java.

2   (A)   Attempt following questions :   4
       (1)   The new keyword is used to _____
       (2)   The this keyword is used to _____
       (3)   To inherit from a class _____ keyword is used.
       (4)   Java does not support _____ Inheritance.

(B) Answer in brief : (Any **one** out of two) 2
   (1) What is final keyword ?
   (2) Define static keyword.

(C) Answer in detail : (Any **one** out of two) 3
   (1) Explain various access specifiers available in Java.
   (2) Explain constructor.

(D) Write notes on : (Any **one** out of two) 5
   (1) Explain method overloading.
   (2) Explain Inheritance with example.

3 (A) Attempt following questions : 4
   (1) A Package is a container of _____
   (2) To create a package _____ keyword is used.
   (3) Math class is in _____ package.
   (4) The Random class is in _____ package.

(B) Answer in brief : (Any **one** out of two) 2
   (1) List out any four API packages
   (2) Define math class.

(C) Answer in detail : (Any **one** out of two) 3
   (1) Explain Wrapper class.
   (2) Explain Date class.

(D) Write notes on : (Any **one** out of two), 5
   (1) Explain Package with example.
   (2) Explain this keyword.

4 (A) Attempt following questions : 4
   (1) If an exception is generated in try block, then it is caught in _____ block.
   (2) The Exception class is in _____ package.
   (3) File is in _____ package.
   (4) The method returns the size of a file in bytes.

(B) Answer in brief : (Any **one** out of two)   2
    (1) Explain term: try
    (2) Explain term: finally

(C) Answer in detail : (Any **one** out of two)   3
    (1) Explain Thread Life Cycle with its diagram.
    (2) Explain FileReader class with example.

(D) Write notes on : (Any **one** out of two)   5
    (1) Explain Exception handling with example.
    (2) What is thread? Explain the ways to create a thread with an example.

5 (A) Attempt following questions :   4
    (1) Applet class is in _____ package.
    (2) To run applet _____ command is used.
    (3) Which method is called first by an applet?
    (4) A scrollbar can generate _____ event.

(B) Answer in brief : (Any **one** out of two)   2
    (1) Define term: init( )
    (2) Define term: start( )

(C) Answer in detail : (Any **one** out of two)   3
    (1) What is Applet? Explain Life Cycle of an Applet.
    (2) Explain Event delegation model.

(D) Write notes on : (Any **one** out of two)   5
    (1) Explain any four methods of Graphics class.
    (2) Write an Applet program for Mouse Events.

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