MAW-003-003402 Seat No. _____

B. C. A. (Sem. IV) (CBCS) Examination

March / April - 2018

CS - 20 : Programming with Java

(Old Course)

Faculty Code : 003
Subject Code : 003402

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

1 Answer the following : 20

(1) JAVA was first developed in _____ year.

(2) A Method Implementation of an interface must be declare as _____

(3) When a Method can throw an Exception then it is specified by _____ keyword.

(4) Which interface must be implemented when using scrollbar in Applet?

(5) Full form of JDK is _____

(6) Maximum value of byte is _____

(7) A Constant value in JAVA is created by using _____

(8) _____ has no return type not even void.

(9) To inherit one class to another class use _____

(10) Which operator is used to create and concatenate string?

(11) AWT control are in _____ package.

(12) All the methods of interface are _____ by default.

(13) The method returns the size of a file in bytes.

(14) _____ is default layout manager for applets and panels.

(15) Size of double data type is _____

(16) To add item in the JCombobox _____ Method is used.

(17) Method overloading is a way by which Java achieves _____

(18) Inheritance means _____

(19) A Class can implement _____ Interface.

(20) To kill a thread at any stage _____ method is used.

2 (A) Write any **three** out of six : 6

    (1) List out various tools of JDK.

    (2) What is Bytecode?

    (3) Explain Components of JDK.

    (4) Explain data type of java.

    (5) What is swing?

    (6) What is AWT ?

(B) Write any **three** out of six : 9

    (1) Discuss the class and object concept in detail.

    (2) Explain the math class with any three methods.

    (3) Discuss the BufferReader and BufferWriter class.

    (4) Explain access specifiers in java.

    (5) Explain garbage collection method.

    (6) Explain java API packages.

(C) Write any **two** out of five : 10

    (1) Write a note on Applet Life Cycle with example.

    (2) Write a java operator in detail.

    (3) Explain java.util package classes.

    (4) Explain multithreading with example.

    (5) Explain Exception Handling in java explain its mechanism.

3 (A) Write any **three** out of six : 6

   (1) What is Inheritance?

   (2) What is Operator precedence?

   (3) What is Stack?

   (4) Differentiate overloading and overriding.

   (5) What is stream?

   (6) What is Stream Tokenizer.

(B) Write any **three** out of six : 9

   (1) Explain CharcterStreams.

   (2) Explain Layout managers.

   (3) Explain GUI with Swing.

   (4) Explain event handling.

   (5) Explain thread life cycle in detail.

   (6) Explain three method of Graphics class

(C) Write any **two** out of five : 10

   (1) Explain Difference between String and StringBuffer.

   (2) Develop java program to read the contents of a file "sau.txt"

   (3) Develop a applet program to accept integer as a parameter and display a message "it is integer"

   (4) Develop java program using JScrollBar to adjust background color.

   (5) Develop java program to read rollno,name,fees for 5 student and print total fees

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