HA-003-001522   Seat No. _____

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

May / June - 2017

CA-502 : Java Programming

Faculty Code : 003
Subject Code : 001522

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

1   Answer the following in one word or sentence :   20

    1.   _____ character is written after value to he assigned to float variable for type casting.

    2.   _____ class can not have child class.

    3.   Java language was initially called _____ but was renamed "Java" in 1995.

    4.   Java can be used to create how many types of program Name each.

    5.   What is the mechanism of oops that binds together code and the data it manipulates and keeps both safe from outside interference and misuse?

    6.   Java has a simple type, called boolean, used for _____.

    7.   Who has no return type, not even void in java programming structure ?

    8.   To inherit one class to another class, what is the keyword need to use?

    9.   Which operator is used to create and concatenate string ?

    10.   What is use of super keyword in java ?

    11.   What is Content of class file called '?

    12.   Which keyword used to refers current object ?

    13.   Name of constructor is always same as name of _____.

    14.   _____ members are accessible from within the package only.

15. Which of the following is used for reading a stream?

a) System, out

b) System.in

c) Sys.out

d) Sys.in

16. init( ) and _____ methods are executed only once during the life cycle of applet.

17. Which method of Graphics class is used to draw text on applet ?

18. Awt classes belong to which package of java

19. Name the platform-independent server-side component. Written in Java, which dynamically extends java enabled servers.

20. Which method of Graphics class is used to draw circle on applet.

2 (a) Answer the following (any three) 6

1. Define the term bytecode.

2. What is method override ?

3. What is class file in java ?

4. Explain static key word.

5. Define an abstract class.

6. How does java source file complie and run ?

(b) Write in brief : (any three) 9

1. What is inheritance ? Explain three type of inheritance.

2. Explain the concept overloading in Java.

3. Write a note on feature of java.

4. Explain JDK and its components.

5. Write a note on Typecasting and type conversion supported by Java.

6. What are the lexical issue of java ?

(c) Attempt any two : **10**

1. Write java programme to generate pyramid of given string from command line.

2. Write a Java program that accept a number and print the sum of the even digits.

3. Write a note on Array in Java

4. What is the use of new and this key word ? explain with example.

5. How does java differs from C++ ?

3 (a) Attempt the following questions; (any three) **6**

1. What is an array ?

2. Which are the Selection statements in Java ?

3. Define Garbage collection.

4. What is Type casting ?

5. What is an interface?

6. What are the command line arguments in Java ?

(b) Attempt the following questions: (any three) **9**

1. What is Method Overloading?

2. What are Visibility controls in Java?

3. Differentiate Extends v/s implements.

4. Explain the implementation of Multiple inheritance in Java.

5. Give the use of finally in exception handling in Java.

6. Give the syntax of Applet tag.

(c) Attempt : (any two) **10**

1. Explain the lava Program Structure Give the basic steps for creating compiling and running a Java Program.

2. Write note on exception handling in Java.

3. Explain the Event delegation model in Java.

4. Explain the Applet life cycle with a suitable example.

5. What is a layout manager Explain application of layout managers with example.

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