PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MCom(CA) DEGREE EXAMINATION MAY 2022
(Fourth Semester)

Branch – COMMERCE WITH COMPUTER APPLICATIONS

<u>JAVA PROGRAMMING</u>

Time: Three Hours   Maximum: 75 Marks

<u>SECTION-A (10 Marks)</u>
Answer ALL questions
ALL questions carry EQUAL marks   (10 x 1 = 10)

1 Consider the following class definition
   Class student extends string
   ```
   {

   }
   ```
   What happens when we try to compile this class?
   (i)   will not compile because class body is not defined
   (ii)   will not compile because the class is not declared public
   (iii) will not compile because string is abstract
   (iv), will not compile because string is final

2 Consider the following class definition
   Class A entends B
   ```
   {
   public A(int x) { }
   public A(int x, int y)
     {
     super(x,y);
     }
   }
   ```
   Which of the following are legal statements to construct A type objects?
   (i)   A a = new A( );   (ii)   A a = new A(4,2,7);
   (iii) A a = new A(5,6);   (iv) A a = new A(base(4,5),6);

3 The concept of multiple inheritance is implemented in Java by
   (i) extending two or more classes
   (ii) extending one class and implementing one or more interfaces
   (iii) implementing two or more interfaces   (iv) all theabove

4 Consider the following code
   Interface Area
   ```
   {
      Float compute (float x, float y);
   }
   Class room  implements area
   {
      Float compute (float x, float y);
   {
    return(x & y);
   }
   }
   ```
   What is wrong with the code?
   (i)   Interface definition is incomplete
   (ii)   Method compute() in interface area should be declared public
   (iii) Method compute() in class room should be declared public
   (iv)   all the above

5 If you want to assign a value of 99 to the variable year, then which of the following lines can be used within an (applet> log ?
(i) number = get parameter(99)   (ii)<number=99>
(iii) <param = radius value value = 99> (iv)<param name = number value = 99>

6 The SetBackground () method is part of the class
(i) Graphics   (ii) Component
(iii) Applet   (iv) Object

7 Which of the following strings can be used as mode strings for creating a random access file object?
(i) "wr"   (ii) "rw"
(iii) "w"   (iv) "o"

8 Which exception is thrown by the read( ) method of Inputstream class?
(i) Exception   (ii) File not found exception
(iii) IO exception   (iv) read exception

9 JDBC means
(i) Java Database Connectivity (ii) Joint Database Connectivity
(iii) Join Database Connectivity (iv) Joint Data Connectivity

10 API means
(i) Active Programming Interface (ii) Application Programming interface
(iii) Abstract Programming interface   (iv) None of the above

SECTION - B (35 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks (5 x 7 = 35)

11 a Write short notes on Java Support Systems.
OR
  b What is constructors ? Explain with example.

12 a What are the differences between class and interfaces?
OR
  b What are the benefits of classes into package?

13 a Write short notes on Applet Tag.
OR
  b How do you draw a polygon with three sides?

14 a Discuss on any five methods in the Input stream methods.
OR
  b What are the errors occurs in compile time ? Explain.

15 a What are the importance classes present in the Java.util package?.
OR
  b How do you delete a record? Explain.

SECTION - C (30 Marks)
Answer any THREE Questions
ALL Questions Carry EQUAL Marks (3 x 10 = 30)

16 Explain the features of Java in detail.

17 Discuss about the method of defining and accessing packages in Java in detail.

18 What are the various types of controls in AWT? Discuss.

19 Write a program to display a text file called src.txt.

20 Define JDBC connectivity.

Z-Z-Z   END