This question paper contains **3** printed pages]

V—356—2017

FACULTY OF SCIENCE

B.Sc. (Second Year) (Fourth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2017

COMPUTER SCIENCE

Paper IX

(Programming in Java)

(MCQ + Theory)

(Thursday, 14-12-2017)   **Time : 2.00 p.m. to 4.00 p.m.**

Time—2 Hours   *Maximum Marks—40*

N.B. :— Assume suitable data if necessary.

<div align="center">MCQ</div>   10

1. Select *correct* alternative for the following :

    (1) .... is range of short data type in Java.

         (A) –128 to 127

         (B) –32768 to 32767

         (C) –10000 to 10000

         (D) None of these

    (2) .... is not a type of inheritance.

         (A) Single   (B) Heirarchical

         (C) Multiple   (D) None of these

    (3) .... method can be defined only once in program.

         (A) Main   (B) Static

         (C) Private   (D) Public

<div align="right">P.T.O.</div>

(4) .... is used to compile Java program.

 (A) Javax   (B) Java

 (C) Javacom   (D) Javac

(5) .... can be operands of arithmetic operators.

 (A) Numeric   (B) Char

 (C) Both (A) and (B) (D) None of these

(6) .... class is superclass of string and string Buffer Class.

 (A) Java.lang   (B) Java.util

 (C) Arraylist   (D) None of these

(7) .... is returned type of constructor.

 (A) int   (B) char

 (C) float   (D) none of these

(8) .... keyword can be used in subclass to call the constructor of superclass.

 (A) this   (B) extent

 (C) super   (D) extends

(9) .... access specifier must be used for mnh( ) method.

 (A) Private   (B) Protected

 (C) Public   (D) All

(10) .... cannot be declared as static.

 (A) Class   (B) Method

 (C) Variable   (D) Object

Theory

2. Explain concept of class and object with example.   10

Or

(*a*) How java differs from C and C++ ?   5

(*b*) Write a program in Java to display Fibonacci series. 5

3. Explain concept and advantages using applet with suitable example. 10

Or

(*a*) Explain structure of Java program with suitable example. 5

(*b*) Write a program in Java to describe concept of method overloading. 5

4. Explain concept of inheritance in detail. 10

Or

(*a*) Explain concept of Java API package. 5

(*b*) Explain string array with suitable example. 5