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W—420—2018

FACULTY OF SCIENCE

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

NOVEMBER/DECEMBER, 2018

(CGPA Pattern)

COMPUTER SCIENCE

Paper IX

(Programming in Java)

(MCQ & Theory)

(Tuesday, 11-12-2018)   **Time : 2.00 p.m. to 4.00 p.m.**

Time—2 Hours   *Maximum Marks—40*

N.B. :—   (i)   Attempt *All* questions.

(ii)   Figures to the right indicate full marks.

(iii)   Assume suitable data, if necessary.

MCQ

1.   Select the currect answer for the following MCQs :   10

(i)   ....primitive data types are there in Java.

(a)   6   (b)   7

(c)   8   (d)   9

(ii)   When you pass an array to a method, the method receive...........................

(a)   A copy of the array   (b)   A copy of the first element

(c)   The reference of the array (d)   The length of the array

(iii)   In...........................area of memory, the system stores parameters and local variables whenever a method is invoked.

(a)   Heap   (b)   Storage

(c)   Stack   (d)   Array

P.T.O.

(*iv*) A package is a collection of...................................

    (*a*) Classes   (*b*) Interfaces

    (*c*) Editing tools   (*d*) Classes and Interfaces

(*v*) ....method cannot be overriden.

    (*a*) Super   (*b*) Static

    (*c*) Final   (*d*) Private

(*vi*) The class string belongs to................................package.

    (*a*) Java.awt   (*b*) Java.lang

    (*c*) Java.applet   (*d*) Java.string

(*vii*) In Java........................statement can only test for equality, whereas IF statement can evaluate any of the Boolean expression.

    (*a*) Switch   (*b*) Break

    (*c*) If...............Else   (*d*) Continue

(*viii*) ....of the following FOR loops will be an infinite loop.

    (*a*) For (;;)   (*b*) For ($i = 0; i < 1; .i......$)

    (*c*) For ($i = 0; ; i++$)   (*d*) All of these

(*ix*) ....is the range of data type byte in Java.

    (*a*) – 128 to 127

    (*b*) – 32768 to 32767

    (*c*) – 2147483648 to 2147483647

    (*d*) None of the above

(*x*) Decrement operator, decreases value of variable by....................number.

    (*a*) 1   (*b*) 2

    (*c*) 3   (*d*) 4

Theory

2. Explain inheritance concept in detail. 10

Or

(a) How Java differs from C and C++ ? 5

(b) Explain simple if statement with example. 5

3. Describe operators in Java. 10

Or

(a) What is array ? Explain *one* dimensional array. 5

(b) Explain Java and internet concept. 5

4. Explain creating and accessing packages concept with example. 10

Or

(a) Describe while statement. 5

(b) Explain overiding methods. 5