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**AO—357A—2018**

**FACULTY OF SCIENCE**

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

**APRIL/MAY, 2018**

**COMPUTER SCIENCE**

**Paper IX**

**(Programming in JAVA)**

**(MCQ & Theory)**

**(Wednesday, 2-5-2018)**

**Time : 2.00 p.m. to 4.00 p.m.**

*Time—2 Hours*

*Maximum Marks—40*

*N.B. :— (i) All questions are compulsory.*

*(ii) All questions carry equal marks.*

*(iii) Assume suitable data if necessary.*

**MCQ**

1. Select the *correct* alternative for the following : 10

(i) ..... is not a datatype in Java.

(a) int

(b) single

(c) char

(d) boolean

(ii) ..... is return type of a method which does not return any value.

(a) int

(b) float

(c) void

(d) char

P.T.O.

- (iii) ..... method having same name as that of its class.
- (a) constructor (b) delete
- (c) finalize (d) None of these
- (iv) ..... is having highest precedence.
- (a) ++ (b) --
- (c) >> (d) ( )
- (v) Decrement operator -- decreases the value by .....
- (a) 2 (b) 3
- (c) 1 (d) 0
- (vi) ..... is used to allocate memory for object.
- (a) new (b) int
- (c) char (d) None of these
- (vii) ..... keyword is used by method to refer to the object that invoiced it.
- (a) insert (b) catch
- (c) abstract (d) this
- (viii) ..... can be overloaded in Java.
- (a) Methods (b) Constructors
- (c) Both (a) and (b) (d) None of these
- (ix) ..... is default access specifier in Java.
- (a) Public (b) Protected
- (c) Private (d) None of these
- (x) ..... keyword is used to prevent content of a variable from being modified.
- (a) Last (b) Constant
- (c) Static (d) Final

**Theory**

2. Explain the concept of JVM in detail. 10

*Or*

(a) What are the different data types used in Java ? 5

(b) Write a program in Java to display factorial of a given number. 5

3. Explain the concept of inheritance in detail. 10

*Or*

(a) Explain command line arguments with example. 5

(b) Explain the concept of array in Java. 5

4. Explain the concept of package with suitable example. 10

*Or*

(a) What is method overloading ? 5

(b) Explain the concept of applet in detail. 5