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**AO—357—2018**

**FACULTY OF SCIENCE**

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

**MARCH/APRIL, 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) Attempt All questions.*

*(ii) Figures to the right indicate full marks.*

**MCQ**

1. Choose *correct* answer of the following (MCQs) : 10

- (i) Java compiler translates source code into :
- (a) Object code (b) Binary code  
(c) Byte code (d) Assembly code
- (ii) ..... has same name as class name.
- (a) Constructor (b) Object  
(c) Variable (d) Method
- (iii) To execute Java program ..... command is used.
- (a) JAVAX (b) JAVAE  
(c) JAVA (d) All of these
- (iv) Java does not support ..... concept.
- (a) Method overloading (b) Operator overloading  
(c) Method overriding (d) None of these
- (v) ..... is an alternative for multiple inheritance in JAVA.
- (a) Packages (b) Applets  
(c) Interfaces (d) Classes

P.T.O.

- (vi) ..... are JAVA programs developed for internet applications.
- (a) Software (b) Packages  
(c) Applets (d) None of these
- (vii) Java has replaced destructor function with ..... function.
- (a) Destroy (b) Finalize  
(c) Final (d) Constructor
- (viii) Converting one datatype into another is known as :
- (a) Type matching (b) Type comparing  
(c) Typecasting (d) Type calling
- (ix) ..... package is used to implement scanner class.
- (a) Java.net (b) Java.io  
(c) Java.util (d) Java.applet
- (x) ..... file is created after compilation of JAVA program.
- (a) .obj (b) .exe  
(c) .Java (d) .Class

### Theory

2. (a) Write a program in JAVA to display N terms of Fibonacci series. 10
- Or*
- (b) Explain how JAVA differs from C and C++. 5  
(c) Write a detailed note on command line arguments. 5
3. (a) What is Applet ? Explain applet life cycle. 10
- Or*
- (b) Explain the concept of constructor in JAVA. 5  
(c) Explain JAVA API packages. 5
4. Write short notes on the following (any *two*) : 10
- (a) String Methods  
(b) Java Tokens  
(c) Inheritance in JAVA  
(d) JVM.