



AQ-2010101

Seat No. _____

B. C. A. (Sem. IV) (Non CBCS) Examination

March / April – 2016

CS-20 : Programming with JAVA

Time : 3 Hours]

[Total Marks : 100

1 Attempt any **four** : **20**

- (1) Discuss the different Data Types in Java.
- (2) Explain Random Class and Vector Class in Java.
- (3) Write a short note on Java Operators.
- (4) Discuss the Class and Object concept in Java.
- (5) Write a short note on Applet Life Cycle with example.

2 Attempt any **four** : **20**

- (1) Explain "super" keyword and their uses in Java.
- (2) Explain the BorderLayout in Layout Manager.
- (3) Define Inheritance and Encapsulation.
- (4) Discuss Method Overloading and Method Overriding.
- (5) Explain any five Math class functions.

3 Attempt any **four** : **20**

- (1) Explain Access Modifier (visibility mode) in Java.
- (2) Short note : Package in Java.
- (3) Explain the Synchronization in thread with example.
- (4) Differentiate String and StringBuffer classes.
- (5) Explain following :
 - (a) Garbage collection
 - (b) Type conversion
 - (c) Type casting

4 Attempt any four : 20

- (1) Explain Terms :
 - (i) Final
 - (ii) Abstract
 - (iii) Finally
- (2) Write a short note on Layout Manager.
- (3) What is Exception? Explain the exception handling mechanism in java with suitable example.
- (4) Write a note on Event Delegation Model.
- (5) Explain feature of Java.

- (1) Write a JAVA program that takes integer number as an input and check whether that number is Palindrome or Not Palindrome.
- (2) Write an applet which draws a Triangle in the center of applet.
- (3) Write a JAVA program to find factorial number of entered number.
- (4) Write a Java Applet Code to draw diamond shape.
- (5) Write a JAVA program that prints all the prime numbers between 1 to 100.