

Fourth Semester B.C.A. Degree Examinations
October / November 2019
(New Scheme)

BCD 410 : JAVA PROGRAMMING

Time : 3 Hours

Max. Marks : 80

I. Answer ALL questions: **1x5=5**

1. What is JVM ?
2. What is an Abstraction ?
3. Expand JDB.
4. Define error ?
5. _____ tag is used to pass parameter to Applet ?

II. Answer any FIVE of the following: **15x5=75**

6.
 - a) Explain the features of Java.
 - b) Explain Java program structure.
 - c) Explain the various data types available in Java. **(5+5+5)**
7.
 - a) How arrays are initialized and declared in Java. Explain ? Give example.
 - b) What is a vector ? Explain any five vector methods in java.
 - c) Write a note on Wrapper classes. **(5+5+5)**
8.
 - a) Explain final variable, abstract methods and abstract class in Java.
 - b) Explain method overloading with an example.
 - c) Explain how do we Access interface variable with an example. **(5+5+5)**
9.
 - a) Write a note on visibilites mode.
 - b) Explain Java API packages.
 - c) Mention the steps involved in creating a package. Explain with an example. **(5+5+5)**

10. a) Discuss thread life cycle with neat diagram.
b) Explain thread creation in two ways.
c) What is Synchronization explain with an example. **(5+5+5)**
11. a) Discuss the classification of exceptions. Write the syntax of exception handling.
b) Explain:
i) Multiple Catch Statement
ii) Finally Clause
c) Explain Assertion in Java with suitable example. **(5+6+4)**
12. a) Explain the life cycle of an Applet.
b) Distinguish Applet and Application program.
c) Write an Applet code to draw human face. **(5+5+5)**

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