Tribhuvan University

Faculty of Humanities and Social Sciences
OFFICE OF THE DEAN
2019

BCA Third Semester

Subject: OOP in Java   **Full Marks:60**

Time: 3hr   **Pass Marks: 24**

Group B

Attempt any SIX questions. [6x5 = 30]

2. Define OOP. Explain features of object oriented programming language.

3. Explain different type of control statements used in Java.

4. Define Abstract Class. Explain different type of Access control in Java.

5. Define method Overriding? Write any program to implement concept of multiple inheritance in Java.

6. Why is it important to handle exception in Java? Write a program to illustrate the use of exception handling.

7. Define the use of static Keyword. Write any four string methods used in java with example

8. Define super, final and this keyword in Java. Explain the concept of MVC in brief.

Group C

Attempt any TWO questions. [2x10 = 20]

9.
a. Define Multi threading. Write a java program to show the inter-thread communication.

b. Define Stream. Write a program in java to copy the content from one file to another.

10.
a. Define collection class. Explain different Wrapper classes and associated method in java

b. Define AWT. Explain different type of Layout Manager in Java

11.
a. List and explain any five swing controls with their uses.

b. Define JDBC. Write a program to display all records from table of a database

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2020

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Group B

Attempt any Six question

2. Define OOP. Write the characteristic of OOP Language [1 + 4]

3. Explain the Operators available in Java Programming

4. Define Loop. Write a java Program to print first n prime numbers.

5. Differentiate between abstract class and Interface with suitable example

6. Define access modifier. Explain access modifiers in java with example

7. Define exception. Explain exception handling mechanism in java with example

8. Write short note on (any Two): a) Final Keyword   b) Collection class   c) JDBC

Group C

Attempt any Two question

9. a. Write a program to create and use java package.

b. Define thread. Explain the life cycle of thread

10. a Write a program to sort name of any five cities in ascending order

b. Define Polymorphism. How do we achieve polymorphism in java explain with example

11. a Differentiate between Java AWT and Java Swing. Explain different type of layout manager in Java GUI Programming

b. Write a java GUI Program to calculate square of entered number