



Program: Diploma in Information Technology

Full Marks: 80

Year/Part: II/II (2016) © Arjun

Pass Marks: 32

Subject: Java Programming

Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks



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Attempt any **FIVE** questions.

1. a. Explain java as a programming platform. List different java buzzwords. [6+2]
b. What are operators in java? Explain arithmetic and comparison operators with suitable example. [2+6]
2. a. Define class and object. Write a program to define a class box with data member l, b and h. Define member function to read its data member and calculate volume of box. [2+6]
b. Define loop. Write a java program to print n prime number. [2+6]
3. a. Define exception. Explain exception handling mechanism with example. [2+6]
b. What is abstract method? Write a program to implement abstract method. [2+6]
4. a. What are threads? Explain thread states. [2+6]
b. What are java applets? Write its benefits. Explain embedding applet to HTML file with example. [2+2+4]
5. a. What are I/O streams? Explain how we can read and write format to a file in java. [2+6]
b. Define interfaces. Write a program to implement interfaces. [2+6]
6. a. Define method overriding. Write any program to implement concept of method overriding. [2+6]
b. Write short notes on: (any **TWO**) [2×4]
 - i. Arrays
 - ii. Packages
 - iii. Synchronization

Good Luck !



Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back Exam-2080 Bhadra

Program: Diploma in Computer Engineering

Full Marks: 80

Year/Part: III/I (2018) © Arjun

Pass Marks: 32

Subject: Java Programming (Elective)

Time: 3 hrs.

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Attempt any **EIGHT** questions.

1. How java is different than other programming language? [5+5]
Explain data types with example.
2. What is operator? Explain arithmetic operator with example. [2+4+4]
Differentiate between while loop and do while loop.
3. Explain the features of object oriented programming. What is class and object? Explain with example. [5+5]
4. Define inheritance. List and explain different types of inheritance with example. [2+8]
5. Define exception handling. Explain try, catch, throws and finally. [2+8]
6. How can you overload the methods in java? Explain with example. [10]
7. How can you read and write to a file in java programming? [10]
Explain with example. www.arjun00.com.np
8. What are packages? Why do we need packages in java? [2+2+6]
Explain access specifiers with example.
9. Write short notes on: (any **TWO**) [2×5]
 - a. Polymorphism
 - b. Type Casting
 - c. Console Input and Output
 - d. Abstract Classes

Good Luck !



Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back Exam-2079 Chaitra/2080 Baishakh

Program: Diploma in Information Technology

Full Marks: 80

Year/Part: II/II (2016) © Arjun

Pass Marks: 32

Subject: Java Programming

Time: 3 hrs.

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Attempt Any Eight questions.



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1. Write down the advantages of java programming. Explain the use of 'for loop' with an example. [4+6]
2. Define variable. Write a java program to find greatest number among ten numbers using array. [2+8]
3. Explain object oriented programming. Write a java program using class and objects to find area of rectangle. [6+4]
4. Explain abstract methods and classes with an example. [10]
5. Explain inner classes. How can you access inner class through an object? [6+4]
6. What is exception handling? Explain the use of exception handling in java with an example. [2+8]
7. What is inheritance? Explain different types of inheritance in java with simple diagram. [2+8]
8. Explain I/O stream with suitable example. [10]
9. What are applets? Write down code for embedding applet to HTML file. List advantages of using applets. [2+4+4]
10. Write shot notes on: (any TWO) [2×5]
 - a. Thread in Java
 - b. Method Overriding
 - c. Strings
 - d. Constructor

Good Luck!



Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back Exam-2079, Bhadra /Ashwin

Program: Diploma in Computer Engineering

Full Marks: 80

Year/Part: III/I (2018 New Course) © Arjun

Pass Marks: 32

Subject: Java Programming (Elective)

Time: 3 hrs.

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Attempt Any Eight questions.



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1. a) Explain Java and its characteristics. [5]
b) What are constants in Java? Explain it with suitable example. [5]
2. Explain the operators used in Java. [10]
3. a) Explain the concept of two-dimensional arrays in Java. [5]
b) Distinguish between errors and exceptions. [5]
4. What is the use of packages in java? Explain the process of creation of packages. [2+8]
5. Explain the method of handling exception in Java with suitable example. [10]
6. a) How will you implement an interface? Explain with an example. [7]
b) Define objects and classes in Java. [3]
7. a) Explain polymorphism in Java. [5]
b) Explain basic data types used in Java. [5]
8. What is abstract? Write the simple Java Program that reads data from one file and writes data to another file. [2+8]
9. Write short notes on: (Any Two) [2×5=10]
 - a) Dynamic Binding
 - b) Super classes and subclasses
 - c) This keyword
 - d) Java "white paper" buzzwords

Good Luck!



Regular/Back Exam-2078, Chaira-2079 Baishakh

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Pass Marks: 32

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Time: 3 hrs.

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Attempt any EIGHT questions.

1. Explain different features of java programming. Write a simple java program. Explain its structure. [4+3+3]
2. Define operator. List and explain operators used in java programming. [2+8]
3. What is array? Write a java program to arrange any ten numbers in ascending order using array. [2+8]
4. Define class and object. Write a simple java program using class and object. [4+6]
5. What is I/O stream? Explain the concept of applets. [4+6]
6. Explain the method overriding with an example. [10]
7. Define interface. How can you extend and implement interface? Explain with example. [2+8]
8. What is exception? How you handle exceptions in java programming. [2+8]
9. What are threads? Explain different states of thread. [2+8]
10. Write short notes on **(Any TWO)** [2×5]
 - a) Inheritance
 - b) Packages
 - c) Strings

Good Luck !



Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back Exam-2078, Kartik/Mangsir

Program: Diploma in Computer Engineering Full Marks: 80
Year/Part: III/I (2018 New Course) © Arjun Pass Marks: 32
Subject: Java Programming (Elective) Time: 3 hrs

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Attempt All questions.



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1. List the arithmetic operators used in Java. Write a simple Java Application that use basic arithmetic operators. [3+5]
2. Define class and object. Write a Java program to calculate area of rectangle and display it using concept of class and object. [2+6]
3. Differentiate between Exceptions and Errors. Explain with example the mechanism of Exception Handling in Java. [3+5]
4. Write a Java program to find greatest number among 10 input numbers using array. [8]
5. Discuss the main features of Java with reference to Object Oriented Programming concepts. [8]
6. How does applet differ from application? What are the basic steps to create applets? [8]
7. How can you overload the methods in Java? Explain with an example. [4+4]
8. Explain interfaces with suitable example. [8]
9. How can you read and write to a file in Java programming? Explain with example. [8]
10. Write short notes on : (Any Two) [2x4=8]
 - a) Encapsulation
 - b) Method Overriding
 - c) Static fields and methods

Good Luck !



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Attempt any **EIGHT** questions

1. What are the different types of data types used in Java [5+5]
Programming. Explain the comments and variables with an example.
2. Explain java as Object-oriented programming with an [5+5]
example. Explain the use of 'static' variables in java.
3. Explain multi-level inheritance with suitable example. [10]
4. Explain Nested classes. How can we create objects in [4+6]
such cases? Explain with example.
5. What are Interfaces? How can you implement interfaces for [2+8]
use of multiple Inheritance in java Programming?
6. Explain exception Handling in java. [10]
7. What is synchronization? Explain different properties of [4+6]
thread.
8. Explain Applets. How can we embed Applet to HTML file? [2+8]
9. Explain method overloading and method overriding. [5+5]
10. Write short notes on (Any **TWO**) [2×5]
 - a) Types of operators
 - b) Inner classes
 - c) Introduction to java

Good Luck !