

7636

BOARD DIPLOMA EXAMINATION, (C-20)

MAY/JUNE—2023

DCME - FIFTH SEMESTER EXAMINATION

JAVA PROGRAMMING

Time : 3 Hours]

[Total Marks : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define command line arguments in Java.
2. State the purpose of 'this' keyword.
3. Define a package in Java and mention any two types of API packages.
4. Define an interface in Java and write its usage.
5. What is a collection framework?
6. List different types of I/O streams.
7. Define an exception in Java.
8. Write any two differences between thread and process.
9. List any three advantages of Applets.
10. What is an event listener interface? List them

PART—B

8×5=40

Instructions : (1) Answer **all** questions.

(2) Each question carries **eight** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

- 11.** (a) Explain the steps to write compile and execute a Java program with a sample program. 8

(OR)

- (b) Write a Java program to print the largest and smallest element in an I-D array containing 'N' elements. 8

- 12.** (a) Explain the concept of method overriding in Java with an example program. 4+4

(OR)

- (b) Explain the complete procedure to import packages with an example program. 4+4

- 13.** (a) Explain enumset and enum map classes with an example program. 4+4

(OR)

- (b) Explain how to read and write data through console input and output streams with an example program. 4+4

- 14.** (a) Explain multithreading concept in Java with a sample program. 4+4

(OR)

- (b) Explain nested try and multi-catch statements in Java with a program. 2+2+4

- 15.** (a) Explain the usage of following AWT controls in applet programming : 2+2+2+2

(i) Buttons

(ii) Check boxes

(iii) Scrollbars

(iv) Choice

(OR)

(b) Explain how to handle keyboard events with a sample program.4+4

PART—C

10×1=10

- Instructions :**
- (1) Answer the following question.
 - (2) The question carries **ten** marks.
 - (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

16. Below Java codec will perform static polymorphism? Is it justifying your answer with proper output?

```
class x
{
    x(int y,double x)
    {
        System.out.println("hellow world:");
    }
    x(double x,int y)
    {
        System.out.println("welcome to Java");
    }
}
class test
{
    public static void main(String args[])
    {
        x ob=new x(2,4.5);
        x obl=new x(2.5,2);
    }
}
```