

7636

BOARD DIPLOMA EXAMINATION, (C-20)

DECEMBER—2022

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 widening and narrowing casting in Java.
2. List any three primitive and non-primitive data types in Java.
3. State the usage of 'super' keyword in Java.
4. List any three access modifiers in Java.
5. Write the usage of scanner class in Java with syntax.
6. Write the differences between array list and linked list.
7. Write the differences between throw and throws clauses in exception handling.
8. What is the purpose of run() method in thread?
9. What is an event? List different event classes.
10. List any three methods of applet life cycle.

PART—B

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- 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 features of Java. 8

(OR)

(b) Explain different types of constructors in Java with an example program. 4+4

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

(OR)

(b) Explain different types of inheritances and write a Java program to implement single level inheritance. 4+4

13. (a) Explain iterator and list iterator interface methods with a program. 4+4

(OR)

(b) Explain map interface and HashMap class with a program. 4+4

14. (a) Explain life cycle of a thread in Java with a diagram. 4+4

(OR)

(b) Explain about exception handling mechanism in Java. 6+2

15. (a) Explain button and text field AWT controls in Java with an example program. 2+2+4

(OR)

(b) Write a sample Java program to add two numbers using text field AWT. 8

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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. Is it possible to implement method overriding concept in Java without inheritance? If possible, give reasons, if not, give reasons with suitable example.

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