



C16-CM-402

**6431**

**BOARD DIPLOMA EXAMINATION, (C-16)  
OCTOBER/NOVEMBER—2023  
DCME – FOURTH SEMESTER EXAMINATION**

OOPS THROUGH JAVA

Time : 3 Hours ]

[ Total Marks : 80

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**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.

1. Distinguish between Java and C++.
2. What is Unicode in Java?
3. What is the purpose of 'this' pointer?
4. List any six features of Java.
5. What is interface? How is it defined in Java?
6. Write about different access protections available in Java.
7. What is the use of super keyword in Java?
8. Write a short note on sources of errors.
9. What are different states in thread life cycle?
10. Write a short note on connection interface in JDBC.

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[ Contd...

**PART—B**

10×5=50

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

- 11.** (a) Write the differences between procedure oriented programming and OOP. 5  
(b) Explain polymorphism and data encapsulation. 5
- 12.** What is the use of constructor? Explain different types of constructors with an example program. 10
- 13.** (a) Write about type casting in Java. 5  
(b) Write about any five string class methods in Java. 5
- 14.** Explain multilevel inheritance with example program. 10
- 15.** Define package. How to create and import user defined packages with example. 10
- 16.** Explain how to create multiple threads using runnable interface with example program. 10
- 17.** Explain the concept of multicatch statements in Java with example program. 10
- 18.** Explain about prepared statement interface JDBC. 10

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