



25802957

QP CODE: 25802957

Reg No :

Name :

I.M.C.A DEGREE EXAMINATION, MAY 2025

Fourth Semester

Integrated MCA

Core - IMCA4C02 - JAVA

2020 Admission Onwards

76AFA186

Time: 3 Hours

Maximum: 75 Marks

Part A

*Answer any **ten** questions*

*Each question carries **3** marks*

1. Define data abstraction.
2. What are various types of arrays? Give syntax of creating each of them.
3. List out the various Control statements available in Java.
4. Define static keyword with suitable example.
5. Differentiate between interface and abstract class.
6. Explain hierarchical inheritance with suitable example.
7. Distinguish between errors and exceptions.
8. Write a java Program to implement thread using runnable interface.
9. How do applets differ from application programs?
10. Write a program to draw a circle and rectangle using applet.
11. What is java swing?
12. Write a swing program to find the factorial of a numbers.

(10×3=30 marks)

Part B

*Answer **all** questions*

*Each question carries **9** marks*

13. a) Explain the types of operators used in java.

OR

- b) Write a program to copy all elements of one array into another array.





14. a) What is inheritance? Explain different forms of inheritance with suitable programs.

OR

b) How to define a package? How to access, import a package? Explain with examples.

15. a) Explain the following terms with respect to exception handling. i) try ii) catch iii) throw
iv) finally

OR

b) Explain input and output stream in java.

16. a) Explain java applet concepts and how passing parameters to applets works.

OR

b) Explain the input and output stream with suitable example.

17. a) Explain the swing concepts and its components.

OR

b) Develop an EMI calculator to calculate the home loan with the interest rate of 8.9%
using swings.

(5×9=45 marks)

