

PAPER ID—20333

M.C.A. EXAMINATION, 2024

(Second Semester)

THE JAVA PROGRAMMING
LANGUAGE

Code : MCA-203

Time : 3 Hours

Maximum Marks : 80

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

(T-20333)

P.T.O.

Compulsory Question

(अनिवार्य प्रश्न)

1. (i) Define any two data types in JAVA. 2
- (ii) Define Variable in JAVA. 2
- (iii) What do you mean by Type Casting ? 2
- (iv) What is the role of static keyword in JAVA ? 2
- (v) What is an Abstract Class ? 2
- (vi) Define the Applet Tag. 2
- (vii) What is an exception in JAVA ? 2
- (viii) What is Multithreading in JAVA ? 2

Unit I

2. (a) What is JAVA ? Explain the features of JAVA. 8
- (b) Explain the Arrays in JAVA with example. 8

T-20333

2

3. (a) What is an Object-Oriented Programming Language ? Explain how an object is created in JAVA. 10
- (b) Define the Literals in JAVA. 6

Unit II

4. How many types of Operators are available in JAVA ? Explain with examples. 16
5. (a) Explain the role of Constructor in JAVA with example. 10
- (b) What do you understand by this keyword ? Explain its usage with an example. <https://www.haryanapapers.com> 6

Unit III

6. (a) What is an Interface ? How does Interface differ from Class ? Explain with example. 8
- (b) Explain all the Access Specifiers in JAVA with suitable examples. 8

(T-20333)

3

P.T.O.

7. (a) Define the life cycle of Applet. List the methods involved in it. 12
- (b) What is the usage of Super Keyword in JAVA ? 4

Unit IV

8. (a) What is Thread ? Write a JAVA Program to implement multithreading. 8
- (b) Describe the Byte and Character Stream with example. 8
9. (a) Write a Program in JAVA to copy the Text Content of one File into another File. 10
- (b) Explain the Synchronization in JAVA. 6

T-20333

4

170