

Roll No :

Total No. of Questions : 10]

[Total No. of Printed Pages : 2

SP-699

M.Sc. (Final) Examination, 2021

COMPUTER SCIENCE

Paper - MCS-203

(For Due and Imp. Students only)

(Java)

Time : 1½ Hours]

[Maximum Marks : 100

Note :- Attempt *five* questions in all, selecting *one* question from each Unit. All questions carry equal marks.

Unit-I

1. (a) Explain Java Virtual Machine.
(b) Explain the use of Garbage Collection in Java. 10,10

Or

2. What is an Abstract class ? Explain the link of method overriding to abstract class with example. 20

Unit-II

3. (a) Explain how interface help Java to achieve multiple inheritance.
(b) Give an example of Exception Handling in Java. 10,10

Or

4. What is an Applet ? Explain its life-cycle with example. 20

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Unit-III

5. Write short notes on the following AWT controls :

- (a) Checkbox
- (b) Choice
- (c) Labels
- (d) List
- (e) Menu

4×5=20

Or

6. Give an example of Text field and Button in Swings.

20

Unit-IV

7. (a) Write the steps of JDBC.

(b) Give an example of processing results in database connectivity.

10,10

Or

8. What is servlet architecture ? Explain servlet life-cycle with example.

20

Unit-V

9. (a) Explain Beans Architecture.

(b) Explain scattering and tangling

10,10

Or

10. What is AOP ? Explain the advantages of AOP.

20