



C20-CAI-303

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BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER / NOVEMBER—2023

DCAI – THIRD 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. Write the reasons why java doesn't support pointers.
2. Define platform independency in java.
3. What is the usage of interfaces in java?
4. Write any two advantages of packages
5. Define a stream.
6. Write any three differences between enum set and euum map.
7. What are min, max and norm priorities of thread?
8. What is the purpose of start () method in thread?
9. Define an Applet.
10. List any three methods of Applet life cycle.

- 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 java buzzwords.

(OR)

(b) Write a java program to print 3×3 Matrix subtraction using arrays.

12. (a) Explain different types of inheritances in java.

(OR)

(b) Explain constructor overriding concept in java with example.

13. (a) Write a java program to implement reverse of a number using scanner class.

(OR)

(b) Explain how to read and write data to a file using streams classes with an example.

14. (a) Explain different types of exception handling mechanism in java.

(OR)

(b) Explain life cycle of a thread.

15. (a) Explain applet architecture and its life cycle.

(OR)

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

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 overloading and overriding in different classes? If it is, justify the answer with an example.

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