



DCCS301

Reg. No.

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III Semester B.Sc. Degree Examination, April - 2023

COMPUTER SCIENCE

Object Oriented Programming Using Java

Paper : III

(NEP Scheme)



Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

Answer any four questions from eah part.

PART - A

I Answer any **Four** questions. Each question carries 2 marks.

(4×2=8)

1. What is byte code? Mention the types of Java programs.
2. What is a constructor in Java? List the types of constructors in Java.
3. What is the use of 'this' keyword and 'super' keyword?
4. Define streams. Give the classification of streams.
5. Differentiate between 'throw' and 'throws' keyword.
6. What is a Java Bean?

PART - B

II Answer any **Four** questions. Each question carries 5 marks.

(4×5=20)

7. Explain the enhanced for - loop with an example.
8. Define Inheritance. Explain the different types of Inheritance.
9. Write a Java program to accept the regno, name, class and marks of 5 students and display the name and marks of the student who has scored the highest marks.
10. Differentiate between AWT and swing.
11. List any 5 goals of Java collection framework.
12. List the advantages of Java Beans.

[P.T.O.]



(2)
PART - C

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III. Answer any Four questions. Each question carries 8 marks. (4×8=32)

13. a. List out the differences between C and Java. (4)
b. Explain the features of Java. (4)
 14. a. Explain the architecture of JVM with a neat diagram. (4)
b. What is string? Explain different methods of string class. (4)
 15. Explain method overloading method overriding in Java with an example. (8)
 16. a. Define exception. Write a program to show exception handling. (4)
b. What do you mean by user - defined package? Write a program to illustrate user - defined package. (4)
 17. a. Explain the life cycle of an applet with a neat diagram. (4)
b. Write a program to draw several shapes in the created window. (4)
 18. a. Explain different GUI components. (4)
b. Explain thread life cycle. (4)
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