# CBCS-246

### B. Sc. (Hon's) (Third Semester) Examination, Dec. 2023

(CBCS Course)

## COMPUTER SCIENCE Soul ai boat

Paper : 304

(Programming in Java)

Time Allowed: Three hours

Maximum Marks: 60

Minimum Pass Marks: 21

Note: Attempt questions of all two sections as directed.

Distribution of marks is given with sections.

Section-'A'

 $5 \times 6 = 30$ 

### (Short Answer Type Questions)

Note: Attempt all five questions. One question from each unit is compulsory. Each question carries 6 marks.

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#### Unit-I

1. Write charactersitics of Java programming language.

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Differentiate between variables and key words.

#### Unit-II

Define constructor and its types why constructors are used in Java.

#### Or

What will be the order of execution of constructors and destructors in Java program.

#### **Unit-III**

3. How dynamic memory allocation is implimented in Java.

#### Or

Write a Java program to count the number of characters in a given string.

#### **Unit-IV**

Differentiate between Java applets and Java application prorammes.

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Or

Explain Java applet life cycle.

#### Unit-V

5. Why collections are used in Java?

Or

Differentiate between Java interface and Java class.

Section-'B'

3×10=30

#### (Long Answer Type Questions)

Note: Attempt any three questions. Each question carries 10 marks.

- 6. Write a program in Java to print fibonacci sequence.
- 7. What are the object oriented programming paradigm in Java programming Language? Explain each in detail.
- 8. Explain the concept of process synchronization in Java. Also differentiate between process based multitasking and thread based multitasking.

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- 9. Explain wrapper classes and state the use of wrapper classes.
- 10. Explain the concept of screen tokenizer with the help of an example.

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