

বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

Question Paper

B.Sc. Honours Examination 2023 (Under CBCS Pattern)

Semester — II

Subject: COMPUTER SCIENCE

Paper: C-3T

(Programming in JAVA)

Full Marks: 40

Time: 2 hours

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from all the Groups as directed.

GROUP-A

 Answer any five questions from the following: 2×5=10

(a) Why is Java called machine independent and architecture neutral language?

(Turn Over)

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- (b) What is the role of JVM (Java Virtual Machine)?
- (c) What is thread priority?
- (d) What do you mean by JDBC?
- (e) What is an abstract class?
- (f) Differentiate between 'throw' and 'throws'.
- (g) Define nested class.
- (b) Why do we use package in Java?

GROUP-B

Answer any **four** questions from the following: 5×4=20

- 2. Explain each component of the statement 'public static void main (string args[])'. 5
- 3. What is Java applet? How is it different from Java application program? 2+3=5
- 4. What is inheritance? Explain, how multiple inheritance can be implemented using interface in Java. Give suitable example. 2+3=5

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- Differentiate between method-overloading and method-overriding with the help of a suitable example.
- Write a Java program to add two times objects using operator overloading.
- 7. What are threads? Explain how threads are created by implementing runnable interface.

 2+3=5

GROUP-C

Answer any one question from the following: $10 \times 1 = 10$

- 8. (a) What is an exception? Describe how multiple exceptions are caught in Java with the help of a suitable program code.
 - Briefly discuss the methods used by applet during their life cycle. (2+4)+4=10
 - 9. (a) What is the difference between a process and a thread? Mention any three methods of thread class and describe them briefly.
 - (b) What are the uses of final keyword in Java? Explain with an example. (3+4)+3=10

