

312402

May 2023

BCA(DS) - IV SEMESTER
Programming in Java (BCA-DS-212)

Time : 3 Hours]

[Max. Marks : 75

Instructions :

1. It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.
2. Answer any four questions from Part-B in detail.
3. Different sub-parts of a question are to be attempted adjacent to each other.

PART-A

- (a) What is an object? (1.5)
- (b) Differentiate between Object Oriented and Procedure Oriented Approaches. (1.5)
- (c) What are local variables? (1.5)
- (d) What is method overriding? (1.5)
- (e) Differentiate between String & String Buffer class. (1.5)
- (f) What is an abstract class? (1.5)
- (g) What is the use of 'this' keyword? (1.5)
- (h) What is a file? (1.5)

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- (b) Explain different measures of central tendency with the help of examples. (7.5)
- Roll No.
2. (a) Explain programming paradigms. (10)
(b) Write a Java program to demonstrate the use of Constructors. (5)
 3. (a) Explain operators in Java. (5)
(b) What is an Exception? Write a program having single 'try' and multiple 'catch' blocks. (10)
 4. What is an interface? Programmatically explain the 2 ways to create an interface. (15)
 5. (a) What is a stream? Explain various I/O Stream classes. (5)
(b) What is a thread? Explain its lifecycle. (10)
 6. (a) What is inheritance? Explain its types. (10)
(b) What is a package? How do we create it? (5)
 7. (a) What is garbage collection? How it is done in Java? (10)
(b) Write a program to demonstrate function overloading. (15)