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B.C.A. 6th Semester (Full & Re-appear)
Examination, May-2023
OBJECT TECHNOLOGIES AND PROGRAMMING
USING JAVA
Paper- BCA-307

Time allowed : 3 hours]

[Maximum marks : 80

Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination

Note: *Attempt five questions in all. Question No. 1 is compulsory. Select one question from each unit.*

- I. (a) What is Abstraction?
- (b) What is Procedure oriented Approach?
- (c) What are the features of JAVA language?
- (d) What is Final keyword?
- (e) How do we add a class or an interface to a package?
- (f) List some of the most common types of exception that might occurs in java.
- (g) What are modifiers?
- (h) What is Synchronization?

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Unit-I

2. What is object oriented programming? Discuss various application and benefits of OOPs
3. Explain:
 - (i) Inheritance
 - (ii) Method Overriding

Unit-II

4. (a) Explain various data types available in Java
(b) Explain:
 - (i) Array
 - (ii) Method Overloading
5. Explain :
 - (i) Constructor
 - (ii) Garbage Collection
 - (iii) Abstract Class

Unit-III

6. Explain :
 - (i) Exception Handling in Java
 - (ii) Interface
7. What do you mean by Package? How to access the content of package? Discuss the various level of access protection available for package.

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Unit-IV

8. (a) What is multithreading? Explain inter-thread communication and thread Priorities.
(b) How does String class differ from the String Buffer class? Explain with example.
9. (a) What is stream and stream class? How is the concept of stream used in JAVA.
(b) What is input and output in Java? Explain reading and writing on files.

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