

9. (a) Write a program to demonstrate the use of File and data Input/Output stream.  
(b) What is Interface ? How is it implemented ?  
Explain with suitable example.

8,8

Roll No. : .....

Total No. of Questions : 9 ] [ Total No. of Pages : 4

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B.C.A. 6th Semester (Reappear)  
Examination, March-2021

**OBJECT TECHNOLOGIES AND PROGRAMMING  
USING JAVA**

Paper-BCA-307

Time : Three Hours ] [ Maximum Marks : 80

*Before answering the questions, 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 :-** There shall be nine questions. Q. No. 1 will be compulsory and in addition to the compulsory question, students have to attempt *four* more questions selecting *one* from each Unit. All questions shall carry equal marks.

1. (a) What is JVM ?  
(b) What do you mean by byte code ?

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**RD-572**

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**RD-572**

P.T.O.



- (c) What do you mean by Extends keyword ?
  - (d) What is Final Keyword ?
  - (e) What are runtime exceptions ?
  - (f) What is this keyword ?
  - (g) What is the Array ?
  - (h) What is abstract class ?
- 2×8=16

**Unit-I**

- 2. Explain the concept of Classes, Objects and Methods in JAVA. Also write a program to explain the concept of Overriding Methods with reference to classes. 16

- 3. Explain the following with example :

- (a) Applications of OOPS
- (b) Benefits of OOPS
- (c) Paradigm of programming language 6,5,5

**Unit-II**

- 4. (a) Define Constructor. It is possible to overload a constructor. Justify your answer using example.

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**RD-572**

- (b) What are the various data types available in Java ? Explain with example. 10,6
- 5. (a) How can we implement multiple inheritance in Java ? Explain with example.
- (b) What is Polymorphism ? How is it implemented ? Explain with example. 9,7

**Unit-III**

- 6. (a) What are various advantages of using Package in Java ?

- (b) What is Interface ? How is it implemented ? Explain with example. 7,9

- 7. What is an Exception ? How is it different from an error ? Is it possible to include your own exception in a program ? Explain with suitable code for the purpose. Also discuss the use of finally block. 16

**Unit-IV**

- 8. What do you know about multithreading ? How is it implemented in Java ? Explain with suitable example. 16

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**RD-572** P.T.O.