

Roll No. ....

**97692**

**BCA 6th Semester (New)  
Examination – November, 2017**

**OBJECT TECHNOLOGIES & 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 :** Attempt *four* questions in all, selecting *one* question from each Unit. Question No. 1 is *compulsory*. All questions carry 16 marks.

1. (a) What is Equals ( ) method ? 8 × 2 = 16
- (b) What is compare ( ) method ?
- (c) What is JVM ?
- (d) What is Static method ?
- (e) What is identifier ?
- (f) What is increment and decrement operator ?

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- (g) What is Protected keyword ?
- (h) What is Runnable interface ?

**UNIT - I**

- 2. What do you mean by evolution of OO Methodology ?  
What are basic features of OO approach ? What are  
benefits of OOPs ? Explain with example. 16
- 3. Explain the following with a suitable example :  $4 \times 4 = 16$ 
  - (a) Common OO language
  - (b) Applications of OOPs
  - (c) Encapsulation
  - (d) Paradigm of Programming Language

**UNIT - II**

- 4. (a) What is Array ? How to declare and initialize  
Array ? Explain using example. 8
- (b) What are basic features of JAVA ? Illustrate with  
an example. 8
- 5. Explain the following with example:  $4 + 8 + 4$

- (a) Java operator
- (b) Multilevel inheritance
- (c) Abstract classes

**UNIT - III**

- 6. What is Interface ? What are differences and  
similarities between Interface and Multiple  
inheritance ? Explain with example. 16

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- 7. How and why Exceptions handling using in JAVA ?  
What is life cycle of exception handling ? Explain with  
example. 16

**UNIT - IV**

- 8. What is an I/O basic ? How to use Streams and  
Stream classes ? Explain Predefined streams, reading  
and writing files with example. 16
- 9. Explain the following with example :  $5 + 5 + 6$ 
  - (a) Instance of Native method
  - (b) String class
  - (c) String operations