

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

- 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