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BCA 6th Semester
Examination – April, 2019

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 five questions in all. Question Number 1 is compulsory. In addition to compulsory question, attempt four more questions by selecting one question from each Unit. All questions carry equal marks.

1. Answer the following in brief :

2 × 8 = 16

(a) What do you understand by Polymorphism ?

- (b) What do you understand by an object of a class ? Explain the three steps of creating an object of a class. 10

UNIT - II

4. Explain about various types of operators available in Java along with their precedence taking suitable examples. 16

5. (a) What are static methods ? Why main() method is a static method in Java ? 6

- (b) What do you understand by inheritance? Explain different types of inheritance that can be implemented in Java using suitable example. 10

UNIT - III

6. (a) What is an Exception ? How is Exception handling done in Java ? Also explain advantages of exception handling. 10

- (b) Differentiate between Extends and Implements. 6

7. What do you understand by Interface ? How is it different from a 'regular class' and 'abstract class' ? Discuss the use of interface in inheritance using suitable example. 16

UNIT - IV

8. (a) What is Multithreading ? How synchronization is achieved in case of using threads in a program ? 8
(b) Explain setCharAt() methods used in Java. 8
9. Explain the significance of String class in Java ? How is it different from StringBuffer class ? Also explain any two methods of the String class. 16