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BO—03—2016

FACULTY OF COMPUTER STUDIES
B.C.A. (Third Year) (Fifth Semester) EXAMINATION
OCTOBER/NOVEMBER, 2016
(Revised Course)
CORE JAVA
Paper BCA S5.1

(Thursday, 17-11-2016)

Time : 10.00 a.m. to 1.00 p.m.

Time—Three Hours

Maximum Marks—80

- N.B. :—*
- (i) All questions are compulsory.*
 - (ii) From questions Nos. 2 to 4 solve either (a) and (b) or (c) and (d).*
 - (iii) Assume suitable data if necessary.*
 - (iv) Figures to the right indicate full marks.*

1. Answer the following : 20
 - (a) What is JVM ? Discuss JVM in detail.
 - (b) Explain the Java program structure.
 - (c) Explain data types in Java.
 - (d) Discuss if-else statement with suitable example.
 2.
 - (a) Explain method overloading with an example. 8
 - (b) What is thread ? Discuss life cycle of thread. 7
- Or*
- (c) Write a Java program for taking input marks of three students for three subjects. Calculate average of each student and display the lowest average. 8
 - (d) Discuss constructors with an example. 7
3.
 - (a) Write a Java program to calculate factorial of a number. 8
 - (b) What is an interface ? What are similarities between interface and classes ? 7

Or

- (c) Write a program in Java to get input in 3×3 int array. Calculate and display sum of each column. 8
- (d) Define package. Explain Java API package in detail. 7

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4. (a) What is Applet ? Explain its implementation in detail. 8
(b) Discuss wrapper classes with suitable example. 7
- Or*
- (c) Discuss final class and finalized method in detail. 8
(d) Write a Java program to reverse the string. 7
5. Write short notes on the following (any *three*) : 15
- (a) Array
(b) Strings
(c) Class
(d) Java features
(e) Vectors.

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