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Third Semester MCA Degree Examination, Dec.2015/Jan.2016
Programming using JAVA

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Briefly explain the key attributes of object – oriented programming. (06 Marks)
b. Explain type casting in detail with proper example. (07 Marks)
c. Explain the working of enhanced for loop with an example. (07 Marks)
- 2 a. With an example explain the use of break as a form of 'goto'. (08 Marks)
b. Explain parameterized constructors in detail. (08 Marks)
c. Explain the use of 'this' keyword with suitable example. (04 Marks)
- 3 a. Using for each style of for loop write a program to add the elements of a three dimensional array. (08 Marks)
b. Explain right shift bitwise operator. (06 Marks)
c. What is StringBuffer, what is its usage? (06 Marks)
- 4 a. What is the difference between method overloading and method overriding? Explain with proper example. (10 Marks)
b. Briefly explain 'Varargs' method with example. (05 Marks)
c. Explain abstract classes. (05 Marks)
- 5 a. Why do we need interface? How do you create and implement interface in Java. (10 Marks)
b. Explain access specifiers in detail with suitable example. (10 Marks)
- 6 a. What is an exception? Explain exception handling mechanism with proper example. (10 Marks)
b. Explain how to create threads in Java. (05 Marks)
c. Explain how thread communication is achieved in Java. (05 Marks)
- 7 a. What is an applet? Write a Java applet program which handles keyboard event. (10 Marks)
b. Explain Autoboxing with an example. (05 Marks)
c. Explain the delegation event model. (05 Marks)
- 8 a. Briefly explain two key swing features. (06 Marks)
b. Write a note on swing buttons. (08 Marks)
c. With an example explain the linkedlist collection class. (06 Marks)

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