



MC-3754

Second Year B. C. A. (Sem. IV) (CBCS) Examination

September / October – 2013

Java Programming Language : Paper - 403

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

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| नीचे दशांशविक निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी. Fillup strictly the details of signs on your answer book. | Seat No. : |
| Name of the Examination : | <input type="text"/> |
| <input type="text" value="S. Y. B. C. A. (Sem. - 4)"/> | <input type="text"/> |
| Name of the Subject : | <input type="text"/> |
| <input type="text" value="Java Programming Language : Paper - 403 (CBCS)"/> | <input type="text"/> |
| Subject Code No. : <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="5"/> <input type="text" value="4"/> | Section No. (1, 2,.....) : <input type="text" value="Nil"/> |
| | Student's Signature |

- (2) Attempt all questions.
(3) Figure on the right indicates mark.

- 1 Answer in short : (any ten) 20
- (i) Explain Thread Synchronization.
 - (ii) Explain significance of 'void' and 'static' using main ().
 - (iii) How java is a strongly type language ?
 - (iv) Compare private method with final method.
 - (v) List at least 5 built-in package names.
 - (vi) Which operators have right to left associativity ?
 - (vii) Explain working of JIT.
 - (viii) How java implements "goto". Explain using an appropriate example.
 - (ix) Why java doesn't support multiple inheritance ?
 - (x) What do you mean by daemon thread ?
 - (xi) Write a full-form of the following : EJB, JFC, JSDK, AWT
 - (xii) Clarify notifyAll() and yield () methods.
- 2 Attempt the following : (any two) 10
- (i) Write a java program that creates a custom exception if any of its command line arguments are of floating point number.

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[Contd...

- (ii) Can an interface be final ? Can an interface have an inner class ? Justify.
- (iii) Explain with appropriate example how java achieves and implements an Encapsulation.
- 3 Do as directed : (any two) 10**
- (i) Write a java program that executes 3 threads from one thread class. One thread displays “java” for every 1 second, second displays ‘c++’ for every 2 seconds, and third displays “c” for every 3 seconds.
- (ii) Compare interface with class and interface with abstract class.
- (iii) Write a short note on Thread Scheduling.
- 4 Answer the following : (any two) 10**
- (i) Explain StringBuffer class with appropriate example.
- (ii) Write a note on Thread Group and Thread Priorities.
- (iii) Discuss different types of array with appropriate example.
- 5 Write a note on the following : 20**
- (i) Package
- (ii) Applet
- (iii) Exception
- (iv) JavaRunTime environment.
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