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**I Semester MCA. Degree Examination, June/July - 2023****COMPUTER SCIENCE****Object Oriented Programming****(CBCS Scheme Y2k20)****Paper- IMCA5****Time : 3 Hours****Maximum Marks : 70****Instructions to Candidates:****Answer any Five questions from Section - A and Four from Section - B.****SECTION - A****Answer any Five questions. Each question carries Six marks.**

1. Explain the principles of OOPS.
2. Explain with example constructors in Java
3. Difference between string class and string Buffer class. State with example any two methods of string Buffer class.
4. Explain briefly the following with examples.
  - a) Abstract Classes
  - b) Nested Classes
5. What are interfaces? How can multiple inheritance be implemented using interfaces?
6. Write a Java program that creates two threads. First thread displays "Hello" every two seconds and second thread displays "Good bye" every four seconds.
7. What are packages? How are packages created and used in Java?
8. Write a note on Lifecycle. Of an Applet.

**SECTION - B****Answer any Four questions. Each question carries Ten marks.**

9.
  - a) Explain the structure of a Java Program.
  - b) Write a Java Program to print the first in members of Fibonacci series. (5+5)

**[P.T.O.]**



- 10. a) What are static member data and static member method? Explain with example. (4)
- b) Briefly explain - final, finally, finalize (6)
- 11. Explain exception handling in Java (10)
- 12. Explain the two ways of creating threads in Java. (10)
- 13. Discuss the different stream classes in Java. (10)
- 14. Write short notes on: (5+5)
  - a) Method overloading and method overriding
  - b) Arrays and types of Arrays.

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