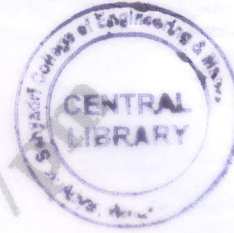


# CBCS SCHEME



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17CS42

Fourth Semester B.E. Degree Examination, June/July 2019

## Object Oriented Concepts

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

### Module-1

- 1 a. Explain the various features of OOC. (08 Marks)
- b. What is a constructor? Mention its types. Explain the parameterized constructor with a suitable code. (08 Marks)
- c. Give the difference between procedure oriented programming and object oriented programming. (04 Marks)

OR

- 2 a. What is an inline function? Write a C++ function to find the maximum of 2 numbers using inline. (08 Marks)
- b. Why friend function is required? Write a program to add two numbers using friend function. (08 Marks)
- c. Write short note on function overloading. (04 Marks)

### Module-2

- 3 a. List and explain the Java Buzzwords. (08 Marks)
- b. Describe the concept of bytecode. (04 Marks)
- c. Develop the program to calculate the average among the elements {4, 8, 10, 12} using foreach in java. How foreach is different from for? (08 Marks)

OR

- 4 a. List the different types of operators. Explain any three. (08 Marks)
- b. What is an array? List the types and explain any one with a suitable code. (06 Marks)
- c. Explain switch case with an example. (06 Marks)

### Module-3

- 5 a. Explain the packages in Java with an example. (08 Marks)
- b. Explain the interfaces in java using suitable code. (08 Marks)
- c. Write short notes on "this" keyword with an example. (04 Marks)

OR

- 6 a. Explain exception handling with a suitable code. (08 Marks)
- b. Explain the java garbage collector. (08 Marks)
- c. Write short notes on "super" keyword, with an example. (04 Marks)

### Module-4

- 7 a. Explain the concepts of multithreading in Java. Explain the two ways of making class threadable with examples. (10 Marks)
- b. With a syntax, explain isAlive() and join() with suitable program. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

OR

- 8 a. Write short notes on Event Listener interface and explain any two interfaces with syntax. (08 Marks)
- b. Write short notes on Event class and explain any two with syntax. (08 Marks)
- c. How inner classes are used in Java? Explain. (04 Marks)

Module-5

- 9 a. What is an applet? Explain the life cycle of an applet. (10 Marks)
- b. Explain passing parameters in Applets. (10 Marks)

OR

- 10 Explain the following with a suitable code: (20 Marks)
- i) JLabel
  - ii) JTextField
  - iii) JList
  - iv) JTable.

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