

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2021

COMPUTER SCIENCE

FCSS3C12-OBJECT ORIENTED PROGRAMMING CONCEPTS

Time: 3 Hours

Maximum Weightage: 30

Section A: Short answer questions. All questions can be answered. Each carries two weightage (Ceiling 6 weightage).

1. What is the concept behind Encapsulation in Object Oriented Programming?
2. What is an array? What are the types of arrays?
3. Write a note on parameterized constructor.
4. How a thread differs from a process?
5. What is DataInputStream in Java. Where does it use?
6. What is event source and event listeners?
7. What are the elements to compose a socket?

Section B: Short essay questions. All questions can be answered. Each carries four weightage (Ceiling 12 weightage).

8. What is the role of Java Virtual Machine? How is it related with byte codes in Java?
9. How while loop and do while differ from each other? Explain with sample programs.
10. Polymorphism is one of the striking features of OOP. Justify with suitable examples.
11. Write a program to print Armstrong numbers within a range.
12. Draw the diagram to demonstrate life cycle of a thread. Explain each phase of life cycle.
13. What is the method to create a square in Applet? How can be it converted to a circle?
14. Explain the steps to establish and manage a connection to database from java program.

Section C: Essay questions. All questions can be answered. Each carries six weightage (Ceiling 12 weightage).

15. Explain various UML Diagrams. What are the usages of these diagrams? Explain with suitable illustrations.
16. What are the different versions of Inheritance? Explain each of them with sample programs.
17. Enlist the various layout managers in Java. Explain their usages with example programs.
18. How are the exceptions handled in Java? What are the types and how do they differ from each other?