D 111123 (Pages : 2) Name..

Reg. No....................................

THIRD SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY) EXAMINATION, NOVEMBER 2024

(CBCSS)

Computer Science

CSS 3C 12—OBJECT ORIENTED PROGRAMMING CONCEPTS

(2019 Admission onwards)

Time : Three Hours Maximum : 30 Weightage

Section A (Short Answer)

Answer any **four** *questions.*
Each question carries 2 *weightage.*

1. Differentiate between procedural and object oriented programming.

2. Give an example of nested class.

3. List the different types of literals with examples.

4. What is the use of abstract class ?

5. Explain Stream Classes.

6. What is an Applet ? What are the types of applets ?

7. Draw a sample labelled activity diagram.

$(4 \times 2 = 8$ weightage$)$

Section B (Short Essay)

Answer any **four** *questions.*
Each question carries 3 *weightage.*

8. Write a program to create a two dimensional array of size $m \times n$, read integers and store into the array and print the array row wise.

9. Demonstrate the working of Looping statements with examples.

10. Demonstrate Dynamic method dispatch with an example.

11. Explain constructor overloading with an example.

Turn over

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12. Explain thread synchronization with example.

13. What is Java Swing ? Differentiate between applets and swings.

14. Outline architecture of JDBC.

$(4 \times 3 = 12 \text{ weightage})$

Section C (Essay)

Answer any **two** *questions.*
Each question carries 5 *weightage.*

15. Explain basics of exception handling in Java. Demonstrate the steps in creating user defined exception classes with an example.

16. Why do we use inheritance in programming ? Explain the basic terms and concepts in java related to inheritance. Illustrate inheritance with an example program.

17. Write a note on :

   (i) Event handling ;

   (ii) AWT classes ; and

   (iii) AWT controls and layout.

18. Discuss Sockets and socket programming.

$(2 \times 5 = 10 \text{ weightage})$