

Register No.: Name:

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

THIRD SEMESTER INTEGRATED M.C.A DEGREE EXAMINATION (R), FEBRUARY 2022 (2020 SCHEME)

Course Code: 20IMCAT205

Course Name: Introduction to Object Oriented Programming

Max. Marks: 60

Duration: 3 Hours

PART A

(Answer all questions. Each question carries 3 marks)

1. Differentiate procedure oriented and object oriented programming.
2. Write a short note on access specifiers.
3. List out the characteristics of *friend* function.
4. What you mean by a destructor?
5. Explain inheritance and its advantages.
6. What is a virtual base class?
7. Highlight void pointers with the help of an example.
8. Define pure virtual function.
9. Explain precision() and fill() functions with suitable examples.
10. Write a short note on class template.

PART B

(Answer one full question from each module, each question carries 6 marks)

MODULE I

11. Explain any six concepts of object oriented programming. (6)

OR

12. Explain array of objects with the help of an example. (6)

MODULE II

13. Elaborate function overloading with a sample program. (6)

OR

14. What is a constructor? Explain the different types of constructors with the help of examples. (6)

MODULE III

15. Explain the concept of binary operator overloading with the help of an example. (6)

OR

16. List different types of inheritance and explain each with an example. (6)

MODULE IV

17. Explain pointers with the help of an example. List out its features. (6)

OR

18. Define virtual functions. Mention the rules for defining a virtual function. Give example. (6)

MODULE V

19. Explain streams in C++ with the help of examples. (6)

OR

20. Write a short note on exception handling with the help of examples. (6)
