

Code No: RT21051

R13

SET - 1

II B. Tech I Semester Supplementary Examinations, Oct/Nov - 2017
OBJECT ORIENTED PROGRAMMING THROUGH C ++
(Com. to CSE, IT)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answer **ALL** the question in **Part-A**
3. Answer any **THREE** Questions from **Part-B**

PART -A

1. a) What are the advantages of OOPs through C++ (4M)
- b) Explain the principles of function overloading (3M)
- c) Explain the properties of friend functions (4M)
- d) What is anonymous object (3M)
- e) What are the rules for virtual functions (4M)
- f) Distinguish between template and macro (4M)

PART -B

2. a) Describe about the console I/O operations (10M)
- b) Explain the peek() and ignore() functions with a example (6M)
3. a) Explain about the memory management operators (8M)
- b) Write a program to find the area of rectangle, triangle and sphere by using function overloading (8M)
4. a) Distinguish between call by value and call by address with an example (8M)
- b) Write a program to exchange values between two classes using friend classes (8M)
5. a) Explain the different types of constructors with an example (8M)
- b) Write a program to overload + binary operator for complex numbers (8M)
6. a) What is inheritance? Explain the different types of inheritances used in C++ (8M)
- b) Write a program to define virtual, non virtual functions and determine size of the object (8M)
7. a) WAP that includes a try block and a catch clause which processes the arithmetic exception generated by division-by-zero error (8M)
- b) Explain about the sequential and random access file operations (8M)