

Total No. of Questions : 8]

SEAT No. :

P627

[Total No. of Pages : 2

[5869]-249

**S.E. (Electronics / E & TC/Electronics & Computer)**  
**OBJECT ORIENTED PROGRAMMING (2019 Pattern)**  
**(Semester - IV)**

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Use of calculator is allowed.
- 5) Assume suitable data if necessary.

**Q1)** a) What is operator overloading? Why it is necessary to overload an operator? [6]

b) Write a program in C++ to use scope resolution operator. [6]

c) What is friend function? What are the merits & demerits of using the friend function? [6]

OR

**Q2)** a) What are the rules for over loading operators. [6]

b) Which operators can not be overloaded? Write steps to overload + operator so that it can add two complex numbers. [6]

c) Write down program to overload unary operators? (Any three operators). [6]

**Q3)** a) Explain virtual base class & virtual function with example? [6]

b) What does inheritance mean in C++? What are different forms of inheritance? Give example of each. [6]

c) Discuss the ways in which inheritance promotes software reuse, saves time during program development and helps prevent errors. [6]

OR

P.T.O.

# Mathematics Engineering First Question Paper Pune University

**Dr Miss Gyan Parmar**



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