Co-506/OOM/5th Sem/2014/N

OBJECT ORIENTED METHODOLOGY

Full Marks - 70

Pass Marks - 28

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer question No. 1 and any five from the rest.

- 1. Answer the following short questions: $5 \times 2 = 10$
 - (a) Explain the use of ">>" operator.
 - (b) What do you mean by abstract data type?
 - (c) Define multiple inheritance.
 - (d) State the meaning of abstract class.
 - (e) What is friend function?
- 2. (a) Compare break and continue statements. 3
 - (b) Compare constructor and destructor functions.
 - (c) Define run time polymorphism and compile time polymorphism and compare them. 6

| | | function. 2+2+5=9 | |
|----|-----------|---|--------------------|
| | (b) | List the operators which cannot be overloaded | |
| 4. | (a) | Write a c++ program to create one base class "employee" having fields: | S |
| | Patrial | name, basic, hra, da and one derived class "sales" having fields = total-sale, bonus incentives. | |
| | | If monthly total-sale is more than 1,50,000/- then bonus = 1500/- and incentives = 10% of total-sale; otherwise bonus = 1000/- and incentives = 5% of total-sale. | f |
| | igki S | Assume appropriate member function and find amount obtained by the employee. 10 | |
| | (b) | Define reference variable. 2 | |
| 5. | (a) | Define copy constructor. 2 | |
| | (b) | Define class and member function template. | v. |
| | (c) | How can you overload '+' 'operator for | THE REAL PROPERTY. |

3. (a) What is virtual function? When it is called

pure? State any five rules of using virtual

program.

adding two distances show by using a c++

- 6. (a) State how to use static members. 3
 - (b) What is the use of 'this' pointer? 3
 - (c) Write down the rules of giving friend function.
- 7. Write short note on any three: $4\times3=12$
 - (a) Online function
 - (b) Dynamic constructor
 - (c) Hierarchical inheritance
 - (d) Advantages of operator overloading.