

Roll No .....

**IT-303****B.E. III Semester**

Examination, December 2016

**OOPs Methodology***Time : Three Hours**Maximum Marks : 70*

- Note:* i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.  
 ii) All parts of each question are to be attempted at one place.  
 iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.  
 iv) Except numericals, Derivation, Design and Drawing etc.

1. a) Write name any three features of object oriented programming concept?  
 b) What is Objects?  
 c) Explain objects as software module.  
 d) Explain flow chart with taking a suitable example.

OR

List out the different kinds of classes. Explain with example.

2. a) How represent a object in C++?  
 b) Explain Modeling.  
 c) Give example for static and dynamic objects.  
 d) Discuss the concept of memory allocation and dynamic allocation.

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OR

Explain following term :

- i) Association between objects
- ii) Storage managements

3. a) Write any two advantages of object programming languages.  
 b) Explain message sending.  
 c) When do make a class virtual?  
 d) Explain the concept of class declaration and object declaration by taking a suitable example.

OR

Explain many to many association and argument passing.

4. a) Give any two advantage of inheritance.  
 b) Explain private operations.  
 c) What is Disinheritance?  
 d) Explain various types of inheritance.

OR

Explain abstract base classes by taking a suitable example.

5. a) Explain key word in C++. Name any two key word in C++.  
 b) What is constructor in C++?  
 c) Write any three advantages of C++ over C language.  
 d) Write a C++ program to perform arithmetic operations using C++.

OR

Explain following term :

- i) Virtual function
- ii) Copy constructor

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