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**MSE-205****M.E./M.Tech., II Semester**

Examination, June 2017

**Object Oriented Analysis and Design****Time : Three Hours****Maximum Marks : 70**

- Note :** i) Attempt any five questions.  
ii) All questions carry equal marks.

1. a) What is Object Oriented Modelling? Discuss its various features. 7  
b) Differentiate between Aggregation and Generalization with suitable example. 7
2. a) What is an interaction diagram? Explain the steps involved in drawing such a diagram with help of an example. 7  
b) Draw and explain the OMT object model for payroll system. 7  
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3. a) Explain the following by giving suitable example : 7  
i) Recursive Association  
ii) Named Association  
b) How does inheritance influence the size and functionality of derived class objects. 7
4. a) Explain object design strategies with special emphasis on choice of data structures and design optimization. 7

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- b) Discuss the methods by which events between objects can be controlled. Illustrate your answer with an example. 7

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5. a) Explain : 7  
i) Generalization as an Extension  
ii) Generalization as a Restriction  
b) What is a Data Flow Diagram? Draw a DFD to explain the working of ATM. 7
6. a) Explain with an example the relationship between object, dynamic and functional modes. 7  
b) Explain dynamic modelling under following points : 7  
i) Events ii) States  
iii) Operations iv) Entry and Exit point
7. a) Explain object oriented databases. What is the difference between relational Vs object oriented database? 7  
b) Explain the process of object mapping and interfacing with databases. 7
8. Write short notes on : 14  
a) Entity  
b) Interfaces  
c) Use case model  
d) UML design

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