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Registered Number:

DATE: **12** **-04-2018 (1PM)**

**ST. JOSEPH’S COLLEGE (AUTONOMOUS), BENGALURU-27**

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| **M.Sc (COMPUTER SCIENCE) –IV SEMESTER** |
| **SEMESTER EXAMINATION: APRIL 2018**  **CS0215:Ooad With Uml** |

**Time-2 ½ hrs Max Marks-70**

**This paper contains 2 printed pages.**

**ANSWER ANY SEVEN QUESTIONS 10\*7=70**

1. Explain the following Object oriented concepts in detail. (2+4+2+2)

a) Abstraction b) Object and its Identity c) Encapsulation d)Class

2. Explain Object Oriented Analysis in detail. (10)

3. Consider developing Hospital Management Software and explain Object oriented Implementation. (2)

Use the following development models. (4+4)

i) Rapid Development process

ii)Component Based development

4. a) Explain in detail about Classes, Class Attributes and methods in detail. (7)

b) Explain the purpose of State Transition Diagram. (3)

5. Consider a case study of your own and write the UML Class Diagram. (10)

CS-0215-A-18

6. a)What are the drawbacks and constraints of using Object Oriented Philosophy ? (4)

b) Consider College Management System. Identify the Actors and Draw Use

Case Diagram. (6)

7. Write about Macro and Micro Development process considering Bank

Management Software. (10)

8. Write in detail the different UML: Interaction diagram. (10)

9. a)What are the different classifications of prototypes? (4)

b)What are the different types of diagrams? Name any six diagrams and their purposes

in detail. (6)