

MCA (Revised)**Term-End Examination****December, 2012****MCS-032 : OBJECT ORIENTED ANALYSIS
AND DESIGN***Time : 3 Hours**Maximum Marks : 100*

Note : Question no. 1 is compulsory. Attempt any three questions from the rest.

1. (a) What are the benefits of object oriented methodology in real life applications ? 5
- (b) Briefly explain each elements of state diagram w.r.t. dynamic modeling. 5
- (c) Patient can arrange and cancel appointment with physician using schedules ? Physician decides to prescribe medication for patient. Physician specifies drug Info : medication name, dosage amount, number doses & refills. Computer cross checks for conflicts between medication and current medications/ medical History prescription forwarded Electronically to pharmacy or else printed for patient.
- (i) Draw a class diagram. Add operations, attributes and relationship with navigation and multiplicity. 6

- (ii) Draw an activity diagram. 5
 - (iii) Draw the DFD diagram. 4
 - (iv) Draw an association and inheritance diagram 6
 - (v) Draw state diagram. 4
 - (d) How do we use packages in UMC ? 5
2. Differentiate Between : 5x4=20
- (a) Encapsulation and information hiding
 - (b) Links and association
 - (c) Communication diagram and deployment diagram.
 - (d) Cohesion & coupling.
3. (a) Write short note on : 2x5=10
- (i) Inheritance adjustment
 - (ii) Concurrency
 - (iii) DBMS keys
 - (iv) Encapsulation
 - (v) Data binding
- (b) Draw an use case diagram of health care system. 5
 - (c) What is the benefit of two way association ? 5
4. (a) For a library management system, make analysis model, design model and construction model. 10

- (b) Differentiate between messages & signalling. 5
 - (c) What are the consequences of implementation environment ? 5

 - 5. (a) What is architecture of UMC ? How many types of diagrams are used in UMC ? Explain each. 10
 - (b) How to represent parallel activities in activity diagram ? 5
 - (c) What are the basic key aspects of object oriented solution ? 5
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