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**Question Paper Code : 81313**

M.E./M.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

*Elective*

Computer and Communication

CP 9262/CP 962 — OBJECT ORIENTED SYSTEM DESIGN

(Common to M.Tech. Information and Communication Technology)

(Regulation 2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List down the properties of a complex software?
2. What is OOS development life cycle?
3. Define OCL?
4. State the purpose of UML?
5. Give an example for an operation contract?
6. What do you mean by design axioms?
7. List down the UML tools available?
8. Define refactoring?
9. Why do we need patterns?
10. Categorize patterns?

PART B — (5 × 16 = 80 marks)

11. (a) Discuss the different phases of OOSD with neat diagram. (16)

Or

(b) Compare Rumbaugh, Booch and Jacobson methodologies. (16)

12. (a) What is static and dynamic behavior diagram and Draw static and dynamic behavior diagrams for a suitable application? (16)

Or

- (b) Derive an OCL for a banking application. (16)
13. (a) (i) Discuss the different ways for collecting requirements. (8)  
(ii) Explain on how to construct domain models. (8)

Or

- (b) (i) Brief on how to convert requirements to design. (6)  
(ii) Discuss on how to design objects with responsibilities and visibility. (10)
14. (a) (i) List down the patterns involved in analysis and design. (6)  
(ii) With an example map a design into code. (10)

Or

- (b) Discuss about test driven development and how it related with UML tools. (16)
15. (a) Explain on how to arrive a logical architecture for an application and what are refinements made for that. (16)

Or

- (b) Discuss about persistence framework with patterns. (16)

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