

Council for Technical Education and Vocational Training  
**Office of the Controller of Examinations**  
Sanothimi, Bhaktapur  
**Regular/Back Exam - 2073, Bhadra/Ashwin**

Program: Diploma in Computer Engineering

Year/Part: III/II (New Course)

Subject: **Object Oriented Analysis & Design**

Full Marks: 80

Pass Marks:32

Time: 3 hrs.

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*Candidates are required to give their answers in their own words as far as practicable.  
The figures in the margin indicates full marks.*

**Attempt Any 8 Questions.**

1. What is object oriented programming? Explain the characteristics of OOP. [2+8]
2. Explain responsibility driven design and object oriented development cycle. [5+5]
3. Explain structural and behavioural model with example. [5+5]
4. Define UML. List various UML based CASE tools and explain one of them. [2+8]
5. Design ATM machine system using use case diagram. [10]
6. Explain in detail about requirement elicitation process and interview for object oriented analysis. [5+5]
7. Explain the process of mapping analysis to design. What various design issues are for object oriented design?
8. Explain sequence diagram and collaboration diagram with example. [5+5]
9. Write short notes on: (Any Two) [2x5]
  - a] Determining Visibility
  - b] Mapping design to code
  - c] Exception and error handling

**Good Luck!**

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