

Mid-West University
Examinations Management Office
End-Semester Examinations -2080

Bachelor level/ B.E. Computer/6th Semester
Time: 3 hours

Full Marks: 50
Pass Marks: 25

Subject: Object Oriented Analysis and Design (CO519)

- *Attempt all the questions*
 - *Figures in the margin indicate full marks.*
 - *Assume suitable values, with a stipulation, if necessary.*
 - *Candidates are required to answer the questions in their own words as far as possible.*
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1. a) What is software complexity? Explain software development cycle. **(1+2)**
b) Define abstraction according to Grady Booch. Briefly explain object modeling and object identity. **(1+2+2)**

 2. a) Explain state and state transition used in object oriented analysis and design. **(5)**
b) Define requirement analysis. Explain different types of non-functional constraints used in system development. **(5)**

 3. a) Why do we use UML diagram in modeling of a system? Explain object diagram of an order management system. **(8)**
b) Explain activity diagram and its component with example. **(6)**

 4. a) Explain different workflows of Unified process. Discuss six best practice used in UP. **(6)**
b) Compare water fall model and unified process with diagram. **(4)**

 5. a) What is product quality? Explain reuse and component model. **(1+4)**
b) Explain different frameworks used in software development. **(3)**

The End