

Q.P. Code: 24567

(3 HOURS)

[Total Marks: 80]

- N.B.: (1) Question no. 1 is compulsory.  
 (2) Attempt any three questions from remaining.  
 (3) Assume suitable data wherever necessary.

Q1 Answer the following:

[20]

- What is Unified Modeling Language (UML)? Explain need for UML.
- Explain software development life cycle used for system analysis.

Q2 a) Explain purpose of use case diagram with example.

[10]

- What are the different types of cohesion and coupling? Explain in short.

[10]

Q3 a) What is the purpose of system proposal? Explain with example.

[10]

- Explain different requirement gathering techniques.

[10]

Q4 a) Explain various steps involved in SRS document with suitable example.

[10]

- Explain importance of class diagram in system design with example.

[10]

Q5 a) Explain the need of sequence diagram with example.

[10]

- What are the different types of cost-benefit analysis? Explain any one in short.

[10]

Q6 Write a short notes on (any two)

[20]

- Application Architecture
- Zachman framework
- Boundary class, entity class and control class
- Data flow diagram (DFD)