

(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]
a) What is Unified Modeling Language (UML)? Explain need for UML.
b) Explain software development life cycle used for system analysis.
- Q2** a) Explain purpose of use case diagram with example. [10]
b) 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]
b) Explain different requirement gathering techniques. [10]
- Q4** a) Explain various steps involved in SRS document with suitable example. [10]
b) Explain importance of class diagram in system design with example. [10]
- Q5** a) Explain the need of sequence diagram with example. [10]
b) What are the different types of cost -benefit analysis? Explain any one in short. [10]
- Q6** Write a short notes on (any two) [20]
a) Application Architecture
b) Zachman framework
c) Boundary class, entity class and control class
d) Data flow diagram (DFD)
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