

N.B. : (1) Question No. 1 is **compulsory**.

(2) Attempt any **four** questions out of remaining **six** questions.

1. (a) What is prototyping ? How is the prototype model useful in software engineering. Discuss its advantages and disadvantages ? 10
(b) Give a Software Requirement Specification (SRS) for developing a software for Hospital Management system ? 10
2. (a) Enlist and explain the steps required to perform a cost estimation using COCOMO model ? 10
(b) What are milestones ? How are they set, achieved and reviewed ? How are they used in project monitoring ? 10
3. (a) Compare conventional approach and object oriented approach to software development. What are the advantages of OOAD ? 10
(b) What are various version control activities ? Explain. 10
4. (a) What are the advantages of the object oriented software engineering ? 10
(b) What kind of error detected in blackbox testing ? Explain various blackbox testing techniques ? 10
5. (a) Explain data flow diagram with suitable example ? 10
(b) Explain various levels of software quality assurance ? 10
6. (a) Describe the various types of maintenance activities after the system has been delivered ? 10
(b) Explain the following terms and list a few activities done in each of them, walkthrough, inspection, FTR and audit ? 10
7. Write notes on any **two** :- 20
 - (a) Software Reliability
 - (b) Feasibility Study
 - (c) Re-engineering.