

Roll No.

Total No. of Questions : 08]

[Total No. of Pages : 02

M.Tech.

ADVANCED SOFTWARE ENGINEERING

SUBJECT CODE : CS - 501

Paper ID : [E0681]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 100

Instruction to Candidates:

- 1) Attempt any **Five** questions.
- 2) All questions carry equal marks.

Q1) What is the need of software testing? Explain in detail about different types of testing.

Q2) (a) What do you understand by software quality management? What are the various means to check the quality of software?

(b) What is software maintenance? How it is different from hardware maintenance?

Q3) Based on your own interpretation, develop the system specification for a low cost self contained Word Processing System? Explain all the steps in detail?

Q4) (a) What are the documentation needs of the different phases of software development? Explain with example.

(b) What is life cycle of software development? Explain different phases of software life cycle?

Q5) (a) Name various software project estimation techniques and explain in detail the structure of a typical estimation model.

(b) What are the various software design tools? Explain with the help of suitable examples.

Q6) Explain the concepts of coupling and cohesion? How the concept of coupling and software portability related? Provide example to support your answer?

Q7) Explain the classic model of life cycle for software engineering. How is it different from spiral model? Explain in detail.

Q8) Explain the following concepts in detail :

- (a) Architectural Design.
- (b) Data Dictionary.
- (c) Client-Server Software.
- (d) Unified Modeling Language.

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