

Roll No. ....

Total No. of Questions : 08]

[Total No. of Pages : 02

**M.Tech.**

**SOFTWARE ENGINEERING METHODOLOGIES**

**SUBJECT CODE : CS - 514 (Elective - II)**

**Paper ID : [E0582]**

[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)** (a) Compare and contrast the terms project management and software engineering.
- (b) Name various software life cycle models and explain the differences between incremental development and rapid application development method.
- Q2)** Define the terms : software architecture and software design. Explain in detail the widely used software design methods illustrating their pros and cons.
- Q3)** Define the term project management. Discuss in detail the various project scheduling techniques.
- Q4)** (a) Define the term object oriented analysis. How it is different from traditional system analysis approach. Describe the three major activities in performing object oriented analysis.
- (b) Differentiate between the following :
- Coupling and cohesion.
  - Requirement and specification.
- Q5)** (a) Explain in detail the various Software Complexity Measures and their need?
- (b) Explain the process of user interface design? Also list the guidelines for Good User interface.

**Q6)** Differentiate between the following :

- (a) Logical and Physical design.
- (b) Software Quality and Reliability.

**Q7)** What do you mean by estimation and scheduling? Explain in detail the various cost estimation models used in Software Engineering.

**Q8)** Write short notes on the following :

- (a) Software Testing.
- (b) Specification Languages.

