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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.

