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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) What do you mean by software design? Name the various system design methodologies and describe in brief the Data design methodology.
(b) Explain how the software development efforts are distributed among the different phases of software development life cycle?

Q2) What do you mean by structured analysis? Explain in detail the tools used for analysis of any Software system.

Q3) Define the term project and project management. Discuss in detail the functions and activities of project management.

Q4) (a) What is visibility in object oriented design. Explain in brief the three kinds of objects used in object oriented design.
(b) Differentiate between the following:

- Verification and validation.
- Requirement and specification.

Q5) (a) Explain the notion of coupling and cohesion with example.
(b) Explain the process of User interface design? Also list the guidelines for Good User interface.

Q6) Differentiate between the following:
(a) Objective-driven and Product-driven projects
(b) Software Quality and Reliability.

Q7) What is the purpose of Software quality Assurance? Why should the quality Assurance organization be independent of development organization?

Q8) Write short notes on the following:

- (a) Complexity Measures.
- (b) Software Evaluation Techniques.

