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Name.....

Reg. No.....



**FIFTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION
DECEMBER 2004**

CH/PTCE2K 501/PTEE2K 402—SOFTWARE ENGINEERING

Time : Three Hours

Maximum : 100 Marks

Common to all Branches + AR 2K502 + BT 2K 501.

Answer all questions.

1. (a) What are the ways of specifying the software requirement ? What are the problems arise when natural language is used for requirement definition ?
(b) Mention the steps involved in the waterfall model of software development.
(c) What are the *four* stages in prototype development.
(d) Discuss the difference between object-oriented and function-oriented design.
(e) What are the importance of software safety and hazard analysis ?
(f) Discuss the differences between verification and validation and explain why validation is a difficult process.
(g) What are the different types of projects encounter by the software organizations.
(h) What do you mean by system building ? What are the factors to be considered by the system building team.

(8 × 5 = 40 marks)

- II. (a) Discuss in detail the requirements engineering processes in detail.

Or

- (b) (i) What are the different classes of non-functional requirement.
(ii) What is the basis of behavioral model ? What are the characteristics of a behavioral model ?

(7 + 8 marks)

- III. (a) Explain in detail the object oriented design process with examples.

Or

- (b) Discuss the advantages of graphical information display for user interface and suggest *two* applications where it would be more appropriate to use graphical display in place of numerical information.

- IV. (a) Discuss in detail how the use of software control can increase system safely.

Or

Turn over