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Total number of printed pages – 2

B. Tech
PCCS 4402

Seventh Semester Back Examination – 2014

PRINCIPLES AND PRACTICES IN SOFTWARE ENGINEERING

BRANCH : CSE

QUESTION CODE : L 200

Full Marks – 70

Time : 3 Hours

Answer Question No. 1 which is compulsory and any **five** from the rest.

The figures in the right-hand margin indicate marks.



1. Answer the following questions : 2 × 10
 - (a) What is Software Engineering ?
 - (b) What are the different factors contributing to the software crisis ?
 - (c) Define Traditional Design Approach.
 - (d) What is Object Oriented Design ?
 - (e) What is the role of systems analyst ?
 - (f) What is traceability of requirements ?
 - (g) What is the main aim of requirements specification ?
 - (h) What is Non-Functional Requirements ?
 - (i) Write any two advantages of total quality management.
 - (j) What is Data Flow Diagram ?
2.
 - (a) Distinguish between a program and a software product. 5
 - (b) What is flow chart ? How is the flow charting technique useful for software development ? 5
3.
 - (a) What is WINWIN Spiral Model ? How it was different from Spiral Model ? 5
 - (b) What is the major advantage of using Incremental Model ? 5

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4. (a) Compare the relative advantages of property-oriented specification methods over the model-oriented specification methods. 5
(b) Write the different characteristics of a good SRS documents. 5
5. (a) What is Object Structure ? Explain the different advantages of OOAD. 5
(b) Explain the different methods of gathering requirements by Analyst in requirements Analysis phase. 5
6. Discuss the two different methods for representation of complex processing logic with suitable examples. 10
7. (a) Name any four metrics to ensure software reliability. 5
(b) If a software product for business application costs Rs. 1, 00,000 to buy and that its size is 60 KLOC assuming that in-house developers cost Rs. 10,000 per month. 5
8. Write short notes on any **two** : 5×2
(a) Coupling
(b) System testing
(c) Entity Decomposition.

