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Total number of printed pages – 2

B. Tech
PCIT 4402

Seventh Semester Examination – 2013

SOFTWARE PROJECT MANAGEMENT

BRANCH : IT

QUESTION CODE : C-274

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 a project ?
 - (b) What is conventional software management ?
 - (c) List the two stage of life-cycle.
 - (d) What is a dummy activity in PERT and CPM network ?
 - (e) What is conventional software economics ?
 - (f) Name the different UML diagrams.
 - (g) Define Architecture framework.
 - (h) What is LOC ?
 - (i) Differentiate between PERT and CPM.
 - (j) What is Putnam's work ?
2. (a) Identify main differences between managing the development of a conventional project and a outsourced project. 5
(b) Explain the major activities carried out by a software project manager and the order in which these are carried out. 5
3. (a) Explain why discounted cash flow techniques provide better criteria for project selection than net profit or return on investment. 5
(b) How ROI can be achieved across a line of business ? 5

P.T.O.

4. What are the major shortcomings of the waterfall model ? How have those shortcomings been overcome by the agile model ? 10
5. (a) Using the COCOMO II methodology estimate the Effort required for building an Automated Teller Machine Software for a bank. The ATM produces 12 simple screens, 12 simple reports and needs 80 difficult 3 GL software components. Assume nominal values for
- (i) Developer's experience/quality
 - (ii) Environment maturity/capability and assume a value of 20 for % reuse. 5
- (b) Explain the six generic functions to be included any Automated Estimation Tool used in the field of software development. 5
6. (a) How the risks involved in a software project can be identified ? 5
- (b) Discuss various types of basic size-oriented metrics and function-oriented metrics. Also explain how one can extend the basic function-point metrics in situations where the basic one proves to be inadequate. 5
7. (a) Explain timeline chart and project table in the context of project scheduling. 5
- (b) Explain about the Improving software economics. 5
8. Write short notes on any **two** of the following : 5×2
- (a) Software safety
 - (b) Software Reliability
 - (c) ISO 9000 Quality Standards.
 - (d) SEI CMM.