

G 6177

M.E. DEGREE EXAMINATION, MAY/JUNE 2007.

Elective

Computer Science and Engineering/Software Engineering

CS 1639 — SOFTWARE PROJECT MANAGEMENT

(Regulation 2005)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Mention any two attributes for a good Software Estimate.
2. What is meant by "Round-trip Engineering"?
3. Distinguish between Implementation Set and Deployment Set.
4. What is meant by Architecture-first approach?
5. What is the objective of SEPA (Software Engineering Process Authority)?
6. What are the responsibilities of the Change Control Board (CCB)?
7. State the objectives Data Gathering.
8. What is the general classification for Software Quality Measures?
9. What is equation for calculating the Effort and Time according to COCOMO?
10. List the drawbacks of COCOMO model.

PART B — (5 × 16 = 80 marks)

- (a) (i) Boehm's top ten principle states that "Only about 15% of software development effort is devoted to Programming". Explain this principle with an example. (8)
- (ii) Justify the statement stated by Boehm :
"80% of the Contribution comes from 20% of the Contributors". (8)

Or

- (b) Explain the Davis's Top 30 principles related with Software Quality.

12. (a) Explain the various life cycle phases with examples.

Or

(b) What are the various Artifact Sets? Explain how they are evaluated, assessed and measured.

13. (a) Explain a default Project Organization along with their responsibilities.

Or

(b) Explain the purpose of Seven Core Metrics that should be used in all Software Projects. Specify examples wherever necessary.

14. (a) Explain the various Software measures along with their data characteristics and classifications. Specify examples wherever necessary.

Or

(b) Explain the principles of Software Defect Prevention with examples.

15. (a) Explain the various End-Product Quality Metrics and In-Progress indicators with examples.

Or

(b) Explain the important concepts behind the success of CCPDS-R Project that was performed for the U.S. Airforce by TRW Space and Defense at California, USA.
