

16/12/14/EN
LEB

Reg. No. :

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Question Paper Code : 45866

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Elective

Software Engineering

XCS 022/10677 SWE 22 — PERSONAL SOFTWARE PROCESS AND TEAM
SOFTWARE PROCESS

(Common to 5 Year M.Sc. Computer Technology and M.Sc. Information Technology)

(Regulation 2003/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is a time recording log?
2. "One common problem with tracking time is interruptions". Why?
3. What is yield?
4. State the need for code review.
5. "TSPi starts with a launch step". Why?
6. With TSPi what are the principal project tracking measures?
7. What is regression testing?
8. List the postmortem exit criteria.
9. Define software quality.
10. List out the major factors for success of a team.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain with an example the engineering notebook design to track time. (12)
- (ii) Can a stopwatch be used to track interruptions? Discuss. (4)

Or

- (b) (i) Explain period planning and product planning with examples. (8)
 - (ii) With respect to product size define size measurement. What are some cautions associated with size measurement? Explain with examples. (8)
12. (a) (i) List and explain the phases of the Personnel Software Process. (8)
- (ii) What are the contents of a defect recording log? Explain with an example. (8)

Or

- (b) (i) What is prototyping? Discuss the advantages of prototyping. (8)
 - (ii) What is a design defect? Discuss how design defects can be identified and eliminated. (8)
13. (a) (i) What is a team? How teams develop? List the common team problems. (8)
- (ii) Explain how TSPi builds teams. (8)

Or

- (b) What is project tracking? Explain with diagrammatic illustration the TSPi project tracking process.
14. (a) (i) List and explain the principal steps in the product implementation process. (8)
- (ii) List and explain the questions addressed by system testing. (8)

Or

- (b) (i) What is postmortem? Why do we need a postmortem during product implementation? Discuss. (8)
 - (ii) What are TSPi test scripts? Explain with examples. (8)
15. (a) List and discuss the goals of the quality/process manager.

Or

- (b) (i) List the eleven principal responsibilities of the development manager. (11)
- (ii) List the six principal responsibilities of the planning manager. (5)