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Question Paper Code : 75524

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Elective

Software Engineering

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

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

(Regulation 2003/2010)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   State the need for a time recording log.

2.   How period and product plans are related?

3.   Are the terms defect and a bug the same? Explain.

4.   State the major impact of design defects.

5.   "TSPi starts with a launch step". Why?

6.   With TSPi what are the principal project tracking measures?

7.   What is functional testing?

8.   What is postmortem?

9.   List the major factors a team's success depends on.

10. What is quality assurance?

PART B — (5 × 16 = 80 marks)

11. (a) (i) With a relevant example discuss the Engineering Notebook Design to track time. (12)

         (ii) Can a stopwatch be used to track interruptions? Discuss. (4)

Or

    (b) (i) With diagrammatic illustrations discuss the Improvement Process. (8)

         (ii) With respect to product size define size measurement. What are some cautions associated with size measurement? Discuss. (8)

12. (a) Tabulate the Project Plan Summary form for the PSP process and discuss the same. (16)

Or

    (b) (i) What are the contents of a defect recording log ? Discuss with an example. (10)

         (ii) What is software quality? Relate defects and quality. (6)

13. (a) (i) What is a team? How teams develop? List the common team problems. (8)

         (ii) Discuss how TSPi builds teams. (8)

Or

    (b) Diagrammatically illustrate and discuss the TSPi project tracking process. (16)

14. (a) With examples discuss any two testing techniques. (16)

Or

    (b) (i) What is postmortem? Why do we need a postmortem? Discuss with a relevant example. (12)

         (ii) List the postmortem exit criteria. (4)

15. (a) You have been assigned as a project leader for a software project. As a project leader what major roles will you play? Discuss with an example. (16)

Or

    (b) List and discuss the goals of the quality/process manager. (16)

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