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Question Paper Code : 91549 .

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Sixth Semester

Information Technology

IT 2022/IT 602/10177 ITE 14 — SOFTWARE REQUIREMENT ENGINEERING

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is software requirement?
2. List the types of software applications.
3. What is the purpose of business modeling?
4. What do you mean by web-based brainstorming?
5. What is delta vision document?
6. Define requirement baseline.
7. What are functional software requirements?
8. Write the use of activity diagram.
9. Why do we need requirements change?
10. What are traceability tools in system development?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Describe the applications of requirements management techniques. (6)
- (ii) Explain the function of waterfall model. List its advantages. (10)

Or

- (b) With a simple case study, explain the organization of software teams. (16)

12. (a) Discuss the steps involved in problem analysis. Illustrate with an example. (16)

Or

(b) (i) Describe the attributes of product features. (8)

(ii) Explain the types of storyboarding. (8)

13. (a) With an example, explain the process of building use case model. (16)

Or

(b) (i) Describe the activities of product management. (8)

(ii) Explain how to organize requirements for product families. (8)

14. (a) (i) Comment on relationship between software requirements and use cases. (6)

(ii) Are design constraints true requirements? Justify. (6)

(iii) Define the terms: ambiguity, specificity. (4)

Or

(b) Discuss the various technical methods for specifying requirements. (16)

15. (a) (i) Explain how to identify use cases scenarios and test cases. (8)

(ii) List and explain the steps involved in the process for managing change. (8)

Or

(b) (i) Explain the quality assessment checklists for requirements. (6)

(ii) Write about Agile requirement methods. (10)