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Question Paper Code: 50245

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Fourth Semester

Computer Science and Engineering

15UCS405 - SOFTWARE ENGINEERING

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. Software Engineering approach is used to achieve
 - (a) better performance of hardware
 - (b) error free software
 - (c) reusable software
 - (d) quality software product
2. QFD in requirement engineering stands for
 - (a) quality function design
 - (b) quality factor design
 - (c) quality function deployment
 - (d) quality function deployment
3. The module in which instructions are related thro' flow of control is
 - (a) temporal cohesion
 - (b) logical cohesion
 - (c) procedural cohesion
 - (d) functional cohesion
4. Top down approach is used for
 - (a) development
 - (b) identification of faults
 - (c) validation
 - (d) functional testing
5. How many stages are in COCOMO-II ?
 - (a) 2
 - (b) 3
 - (c) 4
 - (d) 5

PART - B (5 x 3 = 15 Marks)

6. What are the characteristics to be considered for the selection of a life cycle model?

7. How do you use the models that you create during requirement analysis?
8. What are the various models produced by the software design process?
9. Why testing is important with respect to software?
10. Mention the techniques available in cost estimation.

PART - C (5 x 16 = 80 Marks)

11. (a) Explain iterative waterfall and spiral model for software life cycle and various activities in each phase. (16)

Or

- (b) Explain in detail the project structure and programming team structure of a software organization. (16)

12. (a) Distinguish between expected requirements and exciting requirements. (16)

Or

- (b) Describe how software requirements are documented? State the importance of documentation. (16)

13. (a) Discuss in detail about the design process in software develop process. (16)

Or

- (b) Explain interface design activities. What steps do we perform to accomplish interface design? (16)

14. (a) What is meant by integration testing and system testing? Discuss on their outcomes. (16)

Or

- (b) Explain in detail about test strategies for conventional software. (16)

15. (a) Describe two metrics which have been used to measure the complexities of software. Discuss clearly the advantages and disadvantages. (16)

Or

- (b) What is software equation? Explain in detail the element in it. (16)