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Question Paper Code : 41168

B.E/B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015.

Fifth Semester

Information Technology

CS 1301 – SOFTWARE ENGINEERING

(Common to Computer Science and Engineering)

(Common to B.Tech. Dual Degree (Information Technology))

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the characteristics of the software?
2. Define the term Agility.
3. What are the Difficulties in Elicitation?
4. In what way non-functional requirement differ from functional requirement.
5. List the principles of a software design.
6. What are the different types of Cohesion?
7. In what way work break down structure helps in testing.
8. How to compute the cyclomatic complexity?
9. Distinguish between the "Known Risks" and "Predictable Risks".
10. How to track error?

PART B — (5 × 16 = 80 marks)

11. (a) (i) With neat diagram explain Spiral model. (8)
- (ii) In what way Win- Win Spiral model differ from Behm Spiral Model. (8)

Or

- (b) How object Oriented Project can be model? For student mark processing system derive an ER diagram. (16)

12. (a) (i) For what type of project prototyping model is required? (8)
(ii) Explain the prototyping approaches in software process. (8)

Or

- (b) (i) Discuss about Criticality in collecting Quality Requirements. (8)
(ii) Discuss about Data Dictionary. (8)

13. (a) (i) When you develop a new system in what way SCM (Software Configuration Management) importance will be considered at all levels. (8)
(ii) Do design specifications need quality control? Discuss in detail. (8)

Or

- (b) (i) List out the design steps of transformation mapping. (8)
(ii) For ATM real time system bring out the Use case diagram with its stakeholders. (8)

14. (a) (i) What is smoke testing? Explain about requirements and performance of smoke testing for real time project. (8)
(ii) Discuss flow path testing of five regions and evaluate its effort. (8)

Or

- (b) (i) Explain about tool support for life cycle testing. (8)
(ii) Bring out the limitations of automating software testing. (8)

15. (a) Explain cost-benefit evaluation techniques with risk evaluation for university Result Publishing System.

Or

- (b) Briefly write about:
(i) Software Maintenance. (8)
(ii) Architectural Evolutions. (8)