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Question Paper Code: 31236

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

Third Semester

Computer Science and Engineering

01UCS306 - SOFTWARE ENGINEERING

(Regulation 2013)

Duration: Three hours

Answer ALL Questions

Maximum: 100 Marks

PART A - (10 x 2 = 20 Marks)

- 1. What are the umbrella activities of a software process?
- 2. List the process maturity levels in SEIs CMM?
- 3. What are the various types of traceability in software engineering?
- 4. What are the elements of Analysis model?
- 5. What are the common activities in design process?
- 6. What is interface design? What is user interface design?
- 7. What are the common approaches in debugging?
- 8. How to compute the cyclomatic complexity?
- 9. What are the metrics computed during error tracking activity?
- 10. What is meant by software project scheduling?

PART - B ($5 \times 16 = 80$ Marks)

11. (a) Discuss system engineering hierarchy and briefly explain each level in the hierarchy. (16)

Or

- (b) (i) What are the umbrella activities of a software process. (10)
 - (ii) Which process model is best suited for risk management? State the advantages and disadvantages of the model.(6)
- 12. (a) What is Requirement Engineering? State its process and explain requirement elicitation problem. (16)

Or

- (b) Examine how a perfect prototyping approach can be selected by identifying the merits and demerits of each approach. (16)
- 13. (a) Enumerate data design concepts and principles in detail. (16)

Or

- (b) What is transform mapping? Explain about various design steps of transform mapping. Illustrate transform mapping with an example. (16)
- 14. (a) Explain about basis path testing and loop testing with suitable example. (16)

Or

- (b) How integration testing can be performed? Explain the different approaches to conduct integration testing. (16)
- 15. (a) Discuss about various steps involved in project planning. (16)

Or

- (b) (i) Explain about Tracking the schedule. (8)
 - (ii) Explain in detail about Timeline charts. (8)