Reg. No. : | | | | | | | | | | |

Question Paper Code: 31236

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2016

Third Semester

Computer Science and Engineering

01UCS306 - SOFTWARE ENGINEERING

(Regulation 2013)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. What are the fundamental activities of a software process?
2. What is a boundary value analysis?
3. What are the characteristics of SRS?
4. Define data dictionary.
5. Mention the various elements of data design.
6. Name the commonly used architectural styles.
7. What is boundary value analysis?
8. What are the two levels of testing?
9. How to compute the cyclomatic complexity?
10. Write the types of software maintenance.

PART - B (5 x 16 = 80 Marks)

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

Or

(b) (i) Describe computer based system and analyze the elements used. (10)

(ii) Write short note on the various estimation techniques. (6)

12. (a) (i) Recall the importance of functional modeling. Explain in detail. (6)

(ii) Define cardinality and modality and illustrate the both with suitable examples. (10)

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) (i) List and describe the design steps of the transform mapping. (8)

(ii) How the interrupts are handled in real time system? Explain. (8)

14. (a) (i) Enumerate the technique of verifying the RST condition in black box testing. (8)

(ii) Explain about the software testing strategies. (8)

Or

(b) How integration testing can be performed? Explain the different approaches to conduct integration testing. (16)

15. (a) (i) Illustrate in detail about COCOMO model. (8)

(ii) Analyze the procedure followed in Delphi method. (8)

Or

(b) (i) Explain about software cost estimation. (8)

(ii) Explain in detail about Delphi method. (8)