

B.TECH. DEGREE EXAMINATION, MAY 2016**Sixth Semester**

Branch : Computer Science and Engineering

CS 010 605—SOFTWARE ENGINEERING (CS)

(New Scheme—2010 Admission onwards)

[Regular/Improvement/Supplementary]

Time : Three Hours

Maximum : 100 Marks

Part A*Answer all questions.**Each question carries 3 marks.*

1. What are the advantages of developing the prototype of a system ?
2. What are the advantages and disadvantages of CASE tools ?
3. Define requirement analysis. Write down the different areas of effect is requirement analysis.
4. How do OOD and structured design differ ?
5. Write short note on unit testing.

(5 × 3 = 15 marks)

Part B*Answer all questions.**Each question carries 5 marks.*

6. What do you mean by the term "Software Engineering" ? Describe the evolving role of software.
7. Different between Gantt chart and PERT chart.
8. List out requirements elicitation techniques. Which one is the most popular and why ?
9. Explain the design guidelines that can be used to produce "Good Quality" classes or reusable classes.
10. Discuss various steps of data flow Testing.

(5 × 5 = 25 marks)

Part C*Answer all questions.**Each question carries 12 marks.*

11. Describe the Rapid Application Development (RAD) model. Discuss each phase in detail.

Or

Turn over



12. Compare the waterfall model and the spiral model of software development.
13. Compare COCOMO-I and COCOMO-II.

Or

14. Define software metrics. Discuss the areas of applications of software metrics.
15. Discuss various requirement elicitation techniques.

Or

16. What is Software Requirements Specification (SRS) ? List out the advantages of SRS standards. Why in SRS known as the Black Box specification of a system ?
17. Discuss the objectives of software Design. How do we transform an informal design to a detailed design ?

Or

18. Write down the special features exhibited by CASE tools.
19. Distinguish between Integration Testing and system Testing.

Or

20. What are the testing principles that a software Engineer must apply while performing testing ?

(5 × 12 = 60 marks)

