

M.Sc. DEGREE EXAMINATION, OCTOBER 2015.

THIRD SEMESTER

Computer Science

Paper II — SOFTWARE ENGINEERING

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

SECTION A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. What are the characteristics of the software?
2. What is domain analysis?
3. What is integration testing?
4. Differentiate cohesion and coupling.
5. List the factors that affect software quality.
6. What is Cyclomatic complexity? How do you calculate?
7. What is Data Modeling.
8. What are the characteristics of an effective project manager?

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 Pages.

9. (a) List and explain the myths associated with software development.
(b) Write a note on RAD and Spiral model.

Or

10. (a) Write a note on the following
 - (i) Incremental model
 - (ii) Spiral model
- (b) Explain what are 4 GTs and where are they used.

11. (a) What is project scheduling? Discuss the tasks involved in it.
(b) What is the Objective of Formal Technical Reviews?

Or

12. Write a note on Software Quality Assurance. What are the steps involved in developing and implementing software quality assurance plan?

13. (a) What is system engineering? Explain.
(b) Explain the principles of design modeling.

Or

14. Explain the steps in constructing the behavioral model in detail.

15. (a) What is data design? Explain how it is done with examples.
(b) Elaborate on architectural design elements.

Or

16. Discuss the software testing strategies.

