G 1433   (Pages : 2)   Reg. No....................................

Name....................................

B.TECH. DEGREE EXAMINATION, MAY 2012

Sixth Semester

Branch : Computer Science and Engineering / Information Technology

SOFTWARE ENGINEERING (R, T)

(Regular/Improvement/Supplementary)

Time : Three Hours   Maximum : 100 Marks

Part A

Answer **all** *questions.*
Each question carries 4 marks.

1. Define and explain Software Engineering.

2. Explain in detail the phase in software development.

3. Define and explain profit scheduling.

4. Explain the cost estimation and uncertainties in project planning.

5. Explain coupling in System Design.

6. Explain the structured design methodologies.

7. What is structured programming ? Explain in detail.

8. Explain the principle of code reading ? Explain.

9. What are functional and structured testing ? Explain.

10. Define and explain error removal efficiency.

(10 × 4 = 40 marks)

Part B

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

11. Explain in detail the Software requirement specifications

Or

12. Describe in detail the role of Management in Software development.

13. Explain (1) Rayleigh ; (2) teamstructure in detail.

Or

14. Explain the project monitoring plans in detail.

Turn over

15. Explain the structured design methodologies in detail.

Or

16. Explain in detail the principles of system design.

17. Explain in detail the 'Information hiding'.

Or

18. Explain the following :—

    (a) Unit testing ;

    (b) Symbolic execution.

19. Compare and contrast verification and validation techniques. Explain the comparison.

Or

20. Discuss in detail the fundamentals of testing.

(5 × 12 = 60 marks)