

G 1047

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Reg. No.....

Name.....

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

**Sixth Semester**

Branch : Computer Science and Engineering/Information Technology

**SOFTWARE ENGINEERING (RT)**

(Old Scheme—Prior to 2010 Admissions)

[Supplementary/Mercy Chance]

Time : Three Hours

Maximum : 100 Marks

**Part A**

*Answer all questions.*

*Each question carries 4 marks.*

1. What are the attributes of good software ? Discuss.
2. Explain : product metrics ; process metrics.
3. What are milestones ? Discuss the need for milestones.
4. Distinguish between verification and validation. Give example.
5. Define modularity and explain the same with an example.
6. What is content coupling ? Explain with an example.
7. Explain information hiding with an example.
8. What are code inspections ? Why code inspections ?
9. Define debugging and explain the same with an example.
10. What is a test case ? Explain with an example.

(10 × 4 = 40 marks)

**Part B**

*Answer all questions.*

*Each question carries 12 marks.*

11. Diagrammatically illustrate and discuss the waterfall life-cycle model. (12 marks)

Or

12. What is a software requirement specification (SRS) ? List and discuss the characteristics of SRS document.

(12 marks)

Turn over



13. What is cost estimation model ? Explain the basic COCOMO model. (12 marks)

Or

14. What is software configuration management ? List and explain the configuration management activities. (12 marks)

15. (a) Explain procedural abstraction and data abstraction with an example. (6 marks)

(b) What is modularity ? Discuss. (3 marks)

(c) What is stepwise refinement ? Discuss. (3 marks)

Or

16. What is cohesion ? Explain coincidental cohesion, logical cohesion and temporal cohesion with example. (12 marks)

17. What is structured programming ? What are the rules for writing a structured program ? Discuss with an example. (12 marks)

Or

18. What is static analysis ? What is the objective of static analysis ? How is static analysis done ? Discuss. (12 marks)

19. (a) What is unit testing ? List and explain the targets for unit test cases. (6 marks)

(b) What is equivalence class partitioning ? Explain with an example. (6 marks)

Or

20. What is integration testing ? Explain the types of integration testing with example. (12 marks)

[5 × 12 = 60 marks]

