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Question Paper Code : 17298

M.E. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

Elective

. Biometrics and Cyber Security

CP 7022 — SOFTWARE DESIGN

(Common to M.E. Computer Science and Engineering and M.E. Computer Science and Engineering (With Specialization in Networks))

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the needs to design software?
2. What is refactoring?
3. How OOD and OOP related?
4. What are the elements of object model?
5. What is a design patterns?
6. How to documenting the reusable solutions?
7. What is service design?
8. What is data flow design?
9. Define interface and interaction.
10. Define walkthroughs.

PART B — (5 × 13 = 65 marks)

11. (a) Explain the major phases of software design process. And explain the design guidelines and check lists.

Or

- (b) Explain the term software modeling : (3 + 3 + 3 + 4)
- (i) Modularity
 - (ii) Hierarchy
 - (iii) Coupling
 - (iv) Cohesion.

12. (a) Explain the object oriented analysis. And explain any two UML diagrams with neat sketch.

Or

- (b) Describe in detail about the key abstractions and mechanisms of object model.

13. (a) Give short notes of

- (i) Design context. (6)
- (ii) Reusable solutions. (7)

Or

- (b) Write a detailed notes about the design patterns and give suitable example.

14. (a) Discuss in detail about the structural decomposition.

Or

- (b) Explain about service oriented design.

15. (a) Explain design review and how to review against checklist.

Or

- (b) (i) Explain about testing in design review. (6)
- (ii) Give short notes of Task analysis. (7)

PART C — (1 × 15 = 15 marks)

16. (a) Describe in detail about the function oriented design case study.

Or

- (b) Give detail notes on standard patterns from GOF book of patterns.
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