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Question Paper Code : 63321

M.E. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015.

Elective

Computer Science and Engineering

CP 7014 — SOFTWARE ARCHITECTURES



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

(Regulation 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is Software Architecture? Why it is important?
2. How do the Architectures affect the nature of Organization?
3. What are the merits and the demerits of using visual language?
4. Distinguish between static and dynamic Views.
5. What is Batch Sequential? In which style it is used.
6. What is meant by Event based Style?
7. What are the three views used in ADD method?
8. List and brief performance measures of architectural design.
9. What are the needs for evaluating the software architecture?
10. Define cloud computing

PART B — (5 × 16 = 80 marks)

11. (a) What is software process? Draw and explain the architecture business cycle. (16)

Or

- (b) (i) Explain the Quality attribute scenario. (6)
- (ii) Explain the six part Scenario. (10)

12. (a) Explain the architectural structures and views of a system. (16)

Or

(b) Write short notes on the following: (16)

(i) ACME

(ii) View Representations and notations.

13. (a) Explain in detail the data flow style along with a financial application. (16)

Or

(b) Write short notes on: (16)

(i) Call-Return Style.

(ii) Shared information Style.

14. (a) (i) Explain the approaches for architectural design. (10)

(ii) Discuss in detail on system decomposition. (6)

Or

(b) Write short notes on: (16)

(i) Architecture for specifying quality attributes.

(ii) Architectural conformance.

15. (a) Explain in detail about architecture trade-off analysis method (ATAM) and its variations. (16)

Or

(b) Explain the following: (16)

(i) SOA and web services.

(ii) Adaptive structures.