

22.16/16 FW

Reg. No.

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Question Paper Code : 27309

5 Year M.Sc. DEGREE EXAMINATION, MAY/JUNE 2016

Fifth Semester

Software Engineering

ESE 054 – SOFTWARE ARCHITECTURE

(Regulations 2010)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1. What are Pipes and Filters ?
2. Distinguish between Black board and Repositories.
3. List the variants of dataflow system.
4. How do architecture influence for shared Information system ?
5. What is the role of design space in software Architecture ?
6. List the importance of Quality attributes in software.
7. Enumerate the critical elements of design language.
8. Give the necessity of implicit invocation.
9. Do environment have impact over Architectural Design ? Justify.
10. What is Unicon ?

PART – B (5 × 16 = 80 marks)

11. (a) (i) Explain layered Architecture for domain of your interest.
(ii) When to design event based implicit invocation Architecture ? Explain.
- OR**
- (b) (i) With neat diagram explain pipe and filter Architecture.
(ii) Discuss the necessity of repository architecture.
12. (a) (i) List out issues we may experience in absence of Database Integration technique.
(ii) Discuss about integration in software development environment.
- OR**
- (b) How Architectural design varies for shared Information System ? How it can be communicated in intelligent way for business' process ?
13. (a) (i) Discuss about factors that influence for building Architecture Business Cycle.
(ii) How to design for user interface Architecture ? Explain.
- OR**
- (b) (i) Using Quality Factor Deployment explain how the functional need of customer is converted to technical requirements.
(ii) Discuss about achieving quality attributes with tactics for ATM system.
14. (a) (i) For mobile robotic project discuss about gathering requirements by implicit invocation to traditional programming language.
(ii) How to formalize an architecture Style for real time system ?
- OR**
- (b) (i) List out the issues of Notation Linguistics and explain about any one issue.
(ii) What are First Class Connectors ? Explain.
15. (a) (i) Discuss about the necessary components and connectors of Unicon.
(ii) Explain how to check the types of Unicon.
- OR**
- (b) Write short notes on
(i) Tools for Architectural Design
(ii) Architectural interconnection beyond Definition/Use