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Question Paper Code: 27467

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

Fifth Semester

Software Engineering

XSE 351/10677 SW 504 – SOFTWARE ARCHITECTURE

(Regulations 2003/2010)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions. $PART - A (10 \times 2 = 20 Marks)$

- 1. Write about the disadvantages of object-oriented systems.
- 2. Substantiate, why Main Program/Subroutine with shared data style is not suitable for KWIC.
- 3. Define hared information system.
- 4. Define software architecture.
- 5. Mention the functional and structural dimensions for a user-interface system.
- 6. What is meant by QFD?
- 7. State any four functional dimensions of user interface system.
- 8. What is meant by quality functional deployment?
- 9. Write a short note on AESOP.
- 10. Define architectural design.

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$PART - B (5 \times 16 = 80 Marks)$

11.	(a)	(i) Explain the need of software architecture.					
	•	(ii)	Explain layered architectural style with an application.	(10)			
			OR				
	(b)	(i)	Discuss the structure of architectural style with an application.	(10)			
		(ii)	Explain the strategy used to create best architecture for a system	(6)			
12.	(a)	•	lain in detail the necessary architectural structures for shared information em that is suitable for banking system.	n (16)			
			OR				
	(b)	•	lain the scope of integration software development environment domain an example.	n (16)			
13.	(a)	(i)	Discuss the features of quantified design space.	(8)			
		(ii)	Describe the quality assurance technique Quality Function Deployment and its process.	nt (8)			
			OR				
•	(b)	(i)	Explain the design rules for user-interface architecture.	(6)			
		(ii)	Explain the functional and structural dimension of user interface system.	(10)			
14.	(a)	Write notes on the following:					
		(i)	Formalizing an architectural style.	(8)			
		(ii)	Adding implicit invocation to traditional programming languages.	(8)			
			OR				
	(b)	(i)	Briefly explain the features of an ideal architectural description language	. (8)			
		(ii)	Describe the properties of first class connectors.	(8)			
				^ - / / -			

Name three examples for research systems that aim to support architectural design and analysis. Briefly explain about the components and connectors in UniCon. (16)

OR

(b) (i) Define Fable, Illustrate the structure of a Fable. (8)

(ii) For the KWIC problem, offer different solutions using different architectural styles. Compare the solutions based on the Quality attributes. (8)