Seat No. :			

NB-144

December-2015

T.Y.M.Sc. (**CA & IT**)

Software Engineering

Time: 3 Hours] [Max. Ma			rks : 100	
1. (A)		Answer the following:	10	
		(a) Explain Incremental process model in detail.		
		(b) Explain XP process model in detail.		
		OR		
	(A)	Draw UML usecase and activity diagram for online admission process of Gujarat University.	10	
	(B)	Justify any four principles:	10	
		(a) Remember that someone will maintain the software.		
		(b) Create work products that provide value for others.		
		(c) Describe how you intend to accommodate change.		
		(d) Design should be traceable to the requirement model.		
		(e) The Pareto principle applies to software testing.		
2.	Atte	empt any five :	20	
	(a)	Explain scenario-based model and its importance.		
	(b)	Explain class responsibility and collaboration modeling (CRC).		
	(c)	(c) Explain the content model for a webApp.		
	(d)	Explain any two characteristics of "well formed" design class.		
	(e)	Explain data modeling concept in brief.		
	(f)	Define Quality Function Deployment technique. Which three type of requirements are identifies by QFD.		

3.	Attempt any four :		
	(a)	What is Architecture? Explain Data-Flow architecture and "Call & Return" architecture with figure.	
	(b)	What is component? Justify Open-Closed Principle for class based component design.	
	(c)	Define Coupling, Content Coupling, Data Coupling, Stamp Coupling and Control Coupling.	
	(d)	Explain Golden Rules.	
	(e)	Explain basic characteristics of webApp interface design.	
4.	Ans	wer any five :	20
	(a)	Explain Internal-External views of Testing.	
	(b)	Explain overall strategy for Software testing.	
	(c)	Define Verification, Validation and the role of an independent test group.	
	(d)	Explain Formal Technical Review.	
	(e)	Explain Defect Amplification and Removal.	
	(f)	Define Quality and explain Quality Dimensions.	
5.	Atte	empt any five :	20
	(a)	Explain a design pyramid for WebApps.	
	(b)	What types of content architecture are commonly encountered? Explain.	
	(c)	What characteristics can be measured when we assess an OO design? Explain.	
	(d)	What are the steps of an effective measurement process? Explain.	
	(e)	Explain SCM features in detail.	
	(f)	Explain change control process.	

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