## MCA DEGREE IV SEMESTER EXAMINATION APRIL 2013

## CAS 2404 SOFTWARE QUALITY

Maximum Marks: 50

## PART A

Time: 3 Hours

## (Answer ALL questions)

				$(15 \times 2 = 30)$
I.		(a) (b)	What do you understand by software quality? What is cost of quality?	
		(0) (c)	Explain the relevance of formal technical reviews.	
II.		(a)	Explain COQUAMO. What are defect metrics?	
		(b) (c)	Write short notes on object oriented metrics.	
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III.		(a)	What is ISO notes on object oriented metrics?	
		(b)	What are reassessment audits? What are ISO internal audits?	
		(c)	what are 150 internal audits:	
IV.		(a)	What do you understand by software process improvement?	
		(b)	Enumerate the models for software process improvement and excellence.	
		(c)	Write short notes on the EFQM excellence model.	
V.		(a)	Differentiate between inspection and testing.	
		(b)	What is boundary value analysis?	
		(c)	Differentiate between verification and validation.	
			PART B	
				$(5 \times 4 = 20)$
VI.	Α.		Compare software quality control and quality assurance.	
	B.		Discuss the software design checklist.	
			<i>c</i>	
VII.	A.		Discuss Gilb's approach to software product quality model.	
v 11.	А.		OR	
	B.		Explain the classification of software metrics.	
VIII.	A.		How does ISO (as an organisation) carry out its work?	
			OR	
	В.		What is SIG SIGMA? Explain its relevance in software industry.	
IX.	A.		Compare CMM and ISO models for software process improvement.	
			OR	
	В.		Discuss Compatibility Maturity Model Integration (CMMI).	
Х.	Α.		Write short notes on:	
			(i) Software test plan	
			(ii) State transition analysis	
	B.		OR Write short notes on:	
	D.		(i) Gray box testing	
			(i) Extreme tresting	