

Third Semester MCA Degree Examination, Jun/July 2015 Software Testing and Practices

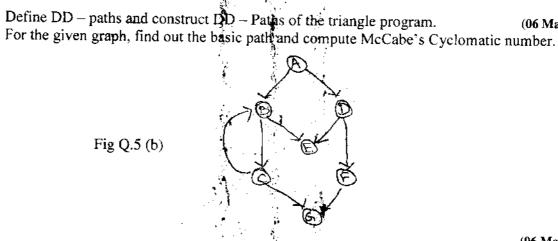
Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

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1	a.	Explain the relationship of Human, Errors and Testing with example.	(06 Marks)
	b.	List out quality attributes of a software and explain each of them.	
	c.	Define the terminologies organizational impatrices and a second of them.	(06 Marks)
	٠.	Define the terminologies organizational metrics, project metrics, process r	netrics and
		product metrics with example.	(08 Marks)
		Ć.	
2	a.	Define sensitivity, Redundancy and Restriction.	(06 Mosles)
	b.	What are Test specifications and cases? Explain Testing Terms.	(06 Marks)
	c.	Define the terms Adagues a criteria and and the state of	(08 Marks)
	٠.	Define the terms Adequacy criteria and composing criteria.	(06 Marks)
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3	a.	Write the basic definitions of	
		i) Error ii) Fault iii) Failure iv) Incident.	(04 N/a-1)
	b.	With the help of diagram, explain Testing Life Cycle.	(04 Marks)
	c.	Narrato the implementation of a life of the Cycle.	(06 Marks)
		Narrate the implementation of traditional triangle problem.	(05Marks)
	d.	How to address computation and MIS applications with the help of commission p	roblem.
			(05Marks)
		• 16 To 10 To	(GDI/IMI IIS)
4	a.	Explain BVA test case for two variables functions and Limitations of BVA.	(00 3 5 3 3
	b.	Explain Robustness Testing:	(08 Marks)
			(06 Marks)
	c.	What is ECT? How weak and strong normal ECT are derived.	(06 Marks)
		eta_i . If i	•

Fig Q.5 (b)



(06 Marks)

(06 Marks)

- Explain Metric Based Testing. (05 Marks) Define slice - Based Testing. (03 Marks)
- a. Differentiate between traditional view of Testing levels and Alternative Life Cycle models. 6 (04 Marks)

	b.	Write a note on:					
		 i) Waterfall spin - offs. 	,				
		ii) Specification Based life cycle models.					(08 Marks)
	c.	What is Integration Testing? Ex	plain To	p – Do	wn and Botte	om - up Integration.	(08 Marks)
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7	a.	Briefly explain mutation analysi	ation analysis and fault based Testing.				(06 Marks)
	b.	Define the terms scaffolding & 7	rest orac	les*witl	ı examples.		(08 Marks)
	¢.	Explain self – check as oracles and capture replay.					(06 Marks)
8		Write short notes on: a) SATM.b) Risk planningc) Organizing Documents		; ;	**		
		d) Decision Tables.	- fr	à.			(20 Marks)

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