## 4555/SCS8C53/ SCS9C53

## NOVEMBER 2013

## SOFTWARE ENGINEERING

(For those who joined in July 2008 and after)

Time: Three hours Maximum: 75 marks

SECTION A —  $(10 \times 1 = 10 \text{ marks})$ 

Answer ALL questions.

Choose the correct answer:

1.	-	— mean	s the al	oility of a p	rogram to		
		form a requiditions for a sta			er stated		
	(a)	Efficiency	(b)	Robustnes	S		
	(c)	Accuracy	(d)	Reliability			
2.	A is a mock_up or model of a software product.						
	(a)	Module	(b)·	Prototype			
	(c)	Function	(d)	Destructor			
3.	with	program the hardware.	ns	interact	directly		
	(a)	System	(b)	Utility			
	(c)	Application	(d)	Java			

	ribed by		
	Richard Fairley		
(c)	Rayleigh	(d)	Putnam
			be used to specify th
	actic structure of s		
	Conditional		Logical
(c)	Arithmetic	(d)	Regular
			for documenting as
com	municating softwa	re req	uirements.
(a)	PSL/PSA	(b)	SADT
(c)	SSA	(d)	Gist
` '		` '	
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9.		e goal of a is to discover and make te of problem areas.			
		Static Analysis (b) Data Flow Diagram			
		Decision Table (d) Walkthrough			
10.	management is concerned with tracking and controlling of the work products that constitute a software product.				
		Configuration (b) Memory			
		File (d) Processor			
		SECTION B — $(5 \times 7 = 35 \text{ marks})$			
	Answ	er ALL questions, choosing either (a) or (b).			
11.	(a)	Software Engineering.			
		Or			
	(b)	Discuss briefly on: Developing a Solution Strategy.			
12.	(a)	Discuss any FOUR Software Cost Factors. Or			
	(b)	Discuss about how to estimate Software Maintenance Costs.			
3.	(a)	Write about the Software Requirements Specification.			
		Or			
	(b)	Discuss briefly on: Gist.			
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14. (a) Discuss about Modules and Modularization Criteria.

Or

- (b) Write Short Notes on: Test Plans.
- 15. (a) Discuss about Quality Assurance.

Or

(b) Discuss in detail, Other Maintenance Tools and Techniques.

SECTION C - (3 × 10 = 30 marks)

Answer any THREE questions.

- 16. Describe in detail, Planning an Organizational Structure.
- 17. Explain any ONE Software Cost Estimation Technique.
- 18. Discuss in detail, Formal Specification Techniques.
- 19. Explain about Design Notations in Software Design.
- 20. Describe the Managerial Aspects of Software Maintenance.