



Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India

(Autonomous College Affiliated to University of Mumbai)

Mid Semester Examination

October – 2017

Max. Marks: 30

Class: F.Y.

Course Code:MCA12

Name of the Course: Software Engineering

Duration: 1.5 Hrs

Semester:I

Branch:M.C.A.

Instruction:

- (1) All questions are compulsory
- (2) Draw neat diagrams
- (3) Assume suitable data if necessary

Q No.		Max. Marks	CO																																				
Q.1	List down and explain the major characteristics of software. Illustrate with the help of diagram. OR Justify "Software myths affect software process" Explain with the help of examples.	5 5	CO1 CO1																																				
Q.2	Identify and explain the process model used when staffing is unavailable for a complete implementation by the business deadline. OR Identify and explain the process model used where the developer may be unsure of the efficiency of an algorithm, the adaptability of an operating system, or the form that human-machine interaction should take.	6 6	CO1 CO1																																				
Q.3	Explain how you will make use of the five XP values to establish a foundation for all work performed as part of XP.	5	CO1																																				
Q.4	Elaborate the term "requirements elicitation". Elaborate any two requirement elicitation techniques?	5	CO2																																				
Q.5	Develop the flow graph for the following graph matrix. Determine the ways to compute the cyclomatic complexity and Compute the cyclomatic complexity for flow graph using any one method. <table><tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>1</td><td></td><td></td><td>a</td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td>d</td><td></td><td>b</td><td></td></tr><tr><td>4</td><td></td><td>c</td><td></td><td></td><td>f</td></tr><tr><td>5</td><td></td><td>g</td><td></td><td></td><td></td></tr></table> OR Compare the following i) Verification and Validation ii) Alpha testing and Beta Testing		1	2	3	4	5	1			a			2						3		d		b		4		c			f	5		g				4 4	CO4 CO4
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2																																							
3		d		b																																			
4		c			f																																		
5		g																																					
Q.6	To create a risk item checklist, which of the subcategories of risk are focused and draw a sample risk table.	5	CO4																																				