

Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India (Autonomous College Affiliated to University of Mumbai)

MID SEMESTER EXAM

March 2020

Max. Marks

: 20

: TE Computer

Semester

: 60 Minutes Duration

Class Course Code

: CE63

Branch

: VI : Computer Engineering

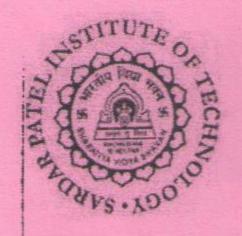
Name of the Course: Software Engineering

Instructions:

(1) All Questions are Compulsory

(2) Draw neat diagrams

Question No.		Ma x. Mar ks	CO- BL-PI
Q 1A)	Given process models A)Waterfall B)Incremental C)RAD Model D)Spiral and properties of process models E) Angular component represent progress F) Porting an existing product to a new platform G) Need to get basic functionality early in market H) Increases reusability I) Open source projects J) Uses "divide and conquer" breakdown of task Relate 1 or more properties to the given process models List 3 reasons why a system should be analyzed before it is implemented?	03 + 03	1-5-2.2.4
	OR Identify if given user story is good or bad. Justify. a) As a user I want the system to use log4j to log all the messages so as to detect errors. b) As a user I want to export data to XML so as to use data in XML format. Discuss SCRUM process and the artifacts, roles, ceremonies in SCRUM	02 +	1-5-2.2.4
Q 2A)	Imagine two flight ticket reservation systems, each of them written in a different programming language. One consists of ten thousand lines of	03	2-5- 5.2.2



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	code, and another one	has two thousa	and lines of code.	Does it mean the		
	first system is more	complex than	the second? Sugg	est best way to		
	compare the 2 systems					Part Francisco
	compare are					
					03	
Q 2B)	How is Earned Value Analysis used to track a project? Discuss with an example.					
						2-2-
				Section 1		5.2.2
	Given the following v	alues compute th	ne F.P when all con	nplexity	4	3-4-2.4.1
Q3	adjustment factors, and weighting factors are average.					2.4.1
	User input= 50, user output= 40, user enquiries= 35, user files = 6,					
	external interface= 4					
	Unadjusted function I	point scale:				
	Onacjasta					
	0. No influence, 1: In	cidental, 2: Mod	erate, 3: Average, 4	4: Significant, 5:		
		cidental, 2: Mod	erate, 3: Average, 4	4: Significant, 5:		
	0: No influence, 1: In Essential	cidental, 2: Mod	erate, 3: Average, 4	4: Significant, 5:		
	Essential	cidental, 2: Mod	Weighting factor			
		Low		High		
	Essential		Weighting factor			
	Essential Functional units	Low	Weighting factor	High 6 7		
	Essential Functional units EI	Low	Weighting factor Average 4 5 4	High 6 7 6		
	Essential Functional units EI EO	Low 3 4 3 7	Weighting factor Average 4	High 6 7 6 15		
	Functional units EI EO EQ ILF FIF	Low 3 4 3 7 5	Weighting factor Average 4 5 4 10 7	High 6 7 6 15 10	4	3-3-
Q4	Functional units EI EO EQ ILF	Low 3 4 3 7 5	Weighting factor Average 4 5 4 10 7	High 6 7 6 15 10	4	3-3-2.2.3
Q4	Functional units EI EO EQ ILF FIF	Low 3 4 3 7 5 in responsibility	Weighting factor Average 4 5 4 10 7 of participants in F	High 6 7 6 15 10	4	
Q4	Functional units EI EO EQ ILF FIF	Low 3 4 3 7 5 in responsibility	Weighting factor Average 4 5 4 10 7 of participants in F	High 6 7 6 15 10 TR meeting.	4	