



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	Duration	: 60 Minutes
Class	: TE Computer	Semester	: VI
Course Code	: CE63	Branch	: Computer Engineering
Name of the Course: Software Engineering			

Instructions:

- (1) All Questions are Compulsory
- (2) Draw neat diagrams

Question No.		Max. Marks	CO-BL-PI
Q 1A)	<p>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?</p> <p style="text-align: center;">OR</p> <p>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</p>	03 + 03	1-5-2.2.4
Q 2A)	<p>Imagine two flight ticket reservation systems, each of them written in a different programming language. One consists of ten thousand lines of</p>	03	2-5-5.2.2



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Q 2B)	code, and another one has two thousand lines of code. Does it mean the first system is more complex than the second? Suggest best way to compare the 2 systems. Justify. How is Earned Value Analysis used to track a project? Discuss with an example.	03	2-2-5.2.2																											
Q3	<p>Given the following values compute the F.P when all complexity adjustment factors, and weighting factors are average. User input= 50, user output= 40, user enquiries= 35, user files = 6, external interface= 4 Unadjusted function point scale: 0: No influence, 1: Incidental, 2: Moderate, 3: Average, 4: Significant, 5: Essential</p> <table border="1"> <thead> <tr> <th rowspan="2">Functional units</th><th colspan="3">Weighting factor</th></tr> <tr> <th>Low</th><th>Average</th><th>High</th></tr> </thead> <tbody> <tr> <td>EI</td><td>3</td><td>4</td><td>6</td></tr> <tr> <td>EO</td><td>4</td><td>5</td><td>7</td></tr> <tr> <td>EQ</td><td>3</td><td>4</td><td>6</td></tr> <tr> <td>ILF</td><td>7</td><td>10</td><td>15</td></tr> <tr> <td>EIF</td><td>5</td><td>7</td><td>10</td></tr> </tbody> </table>	Functional units	Weighting factor			Low	Average	High	EI	3	4	6	EO	4	5	7	EQ	3	4	6	ILF	7	10	15	EIF	5	7	10	4	3-4-2.4.1
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Q4	<p>What is FTR? Explain responsibility of participants in FTR meeting.</p> <p style="text-align: center;">OR</p> <p>Explain different cost incurred to maintain quality of product?</p>	4	3-3-2.2.3																											

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