



# Sardar Patel Institute of Technology

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

(Autonomous College Affiliated to University of Mumbai)

## QUIZ 1 (10-Feb-2021)

**Max. Marks : 15**  
**Class : TE Computer**  
**Course Code : CE 63**  
**Name of the Course: Software Engineering**

**Duration: 15 Minutes**  
**Semester: VI**  
**Branch : Computer Engineering**

### Instructions:

(1) All Questions are Compulsory

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**UID: 2019230069**

Question No.		Max. Marks	CO
1)	The incremental model of software development is <b>a) A reasonable approach when requirements are well defined.</b> b) A good approach when a requirements keep changing. c) The best approach when customer demands a quick release d) A revolutionary model that is not used for commercial products.	1	CO1
2)	Evolutionary software process models a) Are not iterative in nature b) Cannot accept requirements changes <b>c) Do not generally produce throwaway systems</b> d) All of the above.	1	CO1
3)	Which of the following is NOT a typical artifact of the Scrum framework? a) Product Backlog <b>b) SRS</b> c) Product increment d) Sprint Backlog	1	CO1
4)	The spiral model of software development a) Is an iterative model. b) Used in large and complex projects. c) Includes project risks evaluation during each iteration <b>d) All of the above</b>	1	CO1



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5)	In the Spiral model the radius of the spiral at any point represents a)the level of risk b)the progress made in the current phase <b>c)the cost incurred in the project till then</b> d)None of these	1	CO1
6)	What does NOT belong to cornerstones of the agile manifesto? a) Individuals and interactions over processes and tools b) Working software over comprehensive documentation <b>c) Following plan over responding to change</b> d) Customer collaboration over contract negotiation	1	CO1
7)	Conversion of Adjusted Function Point Count to LOC count is dependent on a) Team Size b) Project Duration <b>c) Programming Language</b> d) Cost Drivers	1	CO2
8)	User wants to add/change Customer data, delete Customer data, wants to inquire on Customer, and also requires 1 report on Customer with calculated data. Identify transactional functions (EI/EO/EQ) and data functions (ILF/EIF)  Ans:	1	CO2



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	<p>Q. 8)</p> <p>→ • Data Functions:</p> <p>Customer ILF</p> <p>• Transaction Functions:</p> <p>Add customer EI</p> <p>change customer EI</p> <p>Delete customer EI</p> <p>Inquire on customer EQ</p> <p>Report 1 on customer EQ</p>		
9)	<p>You are managing a software project with an initial budget estimate of 2 million USD. During interim cost and schedule performance analysis, you figured out that:</p> <p>You should have spent \$500,000 till now based on your initial plans and 1,000 man/days of schedule activities</p> <p>You spent \$600,000 till now and completed 1,100 man/days of schedule activities which should have cost \$450,000 based on your initial plans.</p> <p>Calculate CPI and SPI</p>	2	CO2



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Q.9)

→

$$PV = \$ 500,000$$

$$AC = \$ 600,000$$

$$EV = \$ 450,000$$

$$CPI = \frac{EV}{AC}$$

$$= \frac{\$ 450,000}{\$ 600,000}$$

$$\therefore CPI = \underline{\underline{0.75}}$$

$$SPI = \frac{EV}{PV}$$

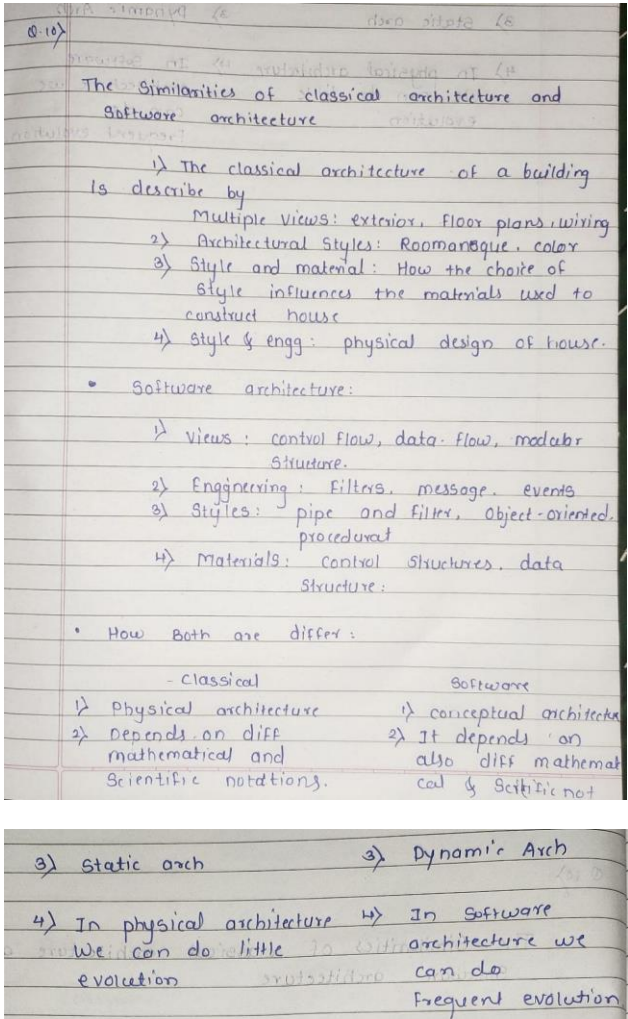
$$= \frac{\$ 450,000}{\$ 500,000}$$

$$\therefore SPI = \underline{\underline{1.10}}$$



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10)	<p>Using the architecture of a house or building as a metaphor, draw comparisons with software architecture. How are the disciplines of classical architecture and the software architecture similar and how they differ?(2 points each)</p> <p>Discuss architecture of Watsapp system design with help of a diagram. (not exceeding 1 page)</p> 	2 + 3	CO4
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