

## 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

September 2018

**Duration: 1Hrs** 

Semester:V

Branch:IT

Max. Marks: 20

Class:T.E.

Course Code:IT51

Name of the Course: Software Engineering

Instruction:

(1) All questions are compulsary.

(2) Draw neat diagrams.

(3) Assume suitable data if necessary.

Q No.			
Q 110.		Max.	CO
0.1	What is the second seco	Marks	
Q.1	What is the main idea behind an incremental development process?	4	CO1
	Illustrate your answer using, as an example, a system with 15 func-		
	tional requirements (leading to 15 user services) where requirements		
	Fr1, Fr5 have the lowest priority (i.e. they are the least impor-		
	tant), requirements Fr6,Fr10 are more important, and require-		
	ments Fr11,Fr15 are the most important to users.	In Land	
	Give two advantages of incremental development.	1	
	OR		
Page 1	Component based systems development (CBSD) methods place a		
	lot of emphasis on component reuse, hence they differ from tradi-		
	tional systems development methods.		
	1) What are the consequences for component reuse in the system?	2	
	2) Give the purpose of each stage of CBSD methods	3	
Q.2	What is the relationship between the concepts of information hiding		CO1
	as an attribute of effective modularity?	2	COI
	With the help of diagram discuss when modularity is considered.	3	
Q.3	Give the purpose of "include" and "extends" relationship in use	1	CO2
	case diagram.	1	002
	Draw a use case diagram for following case study.	4	-0.1
	Consider the box office include the clerk, supervisor and kiosk.	4	
	The Kiosk accepts orders from customer. The customer is not di-		
	rectly connected to the application. It should include buying tickets		
	through the kiosk or clerk, buying subscription (only through the		
	clerk) and surveying total sales (at the request of the supervisor).		
	Buying tickets and buying subscriptions include a common frag-		
	ment of making charges to the credit card services.		
	same soo to the credit card services.		
Q.4	What is the purpose of sequence diagram?	1	COO
	Draw a sequence diagram for the buy ticket use case from Q3.		CO2
18	1 care the buy ticket use case from Q3.	4	
		Girla	