

**PARUL UNIVERSITY**  
**FACULTY OF ENGINEERING & TECHNOLOGY**  
**B.Tech Mid Semester Exam**

Semester: 4th  
 Subject Code: 303105253  
 Subject Name: Software Engineering

Date: (29/01/2024)  
 Time: (1hr: 30min)

**Total Marks: 40**

Sr. No.		Marks
Q.1	(A) What are the phase of Prototyping Model? (B) What are the attributes of good software? (C) Which are the two dimensions of the spiral model? (D) What are the various categories of software? (E) What are the challenges in software?	05
	(B) Five Fill in the blanks. (A) _____ is defined as the process of generating analysis and designing documents? (B) What does SDLC stands for _____ ? (C) What is the full form of the "COCOMO" model _____ ? (D) _____ is an indirect measure of software development process . (E) Software Debugging is known as _____ .	05
Q.2	Attempt any four (Short Questions)	12
	(1) What is reengineering?	
	(2) What is the difference between Verification and Validation?	
	(3) Draw an ER diagram for a University database.	
	(4) What are the disadvantages of classic life cycle model?	
	(5) Define Software Prototyping.	
Q.3	Attempt any two questions	08
	(1) What is software? What are the development lifecycle phases?	
	(2) With suitable illustration explain SPIRAL model.	
	(3) List out the goals of software engineering.	
Q.4	(A) Suppose a project was estimated to be 400 KLOC. Calculate the effort and development time for each of the three model i.e., organic, semi-detached & embedded.	05
	(B) What is Waterfall Model in SDLC? Explain Advantages and Disadvantages	05
	OR	
	(B) What are the processes of risk management?	05