

**SVKM's**  
**Dwarkadas J. Sanghvi College of Engineering**  
**Acad .Year 2022-2023**  
**YEAR III / Semester VI**

**Program: B.Tech in Computer Engineering**  
**Subject/Course: Software Engineering**  
**Date: 10.08.2023**

**Max. Marks: 75**  
**Time: 10:00-13:00**  
**Duration: 03:00 Hrs**

**RE-EXAMINATION**

**Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover page of the Answer Book, which is provided for their use.**

- (1) This question paper contains \_\_\_\_ pages.
- (2) All Questions are Compulsory.
- (3) Answer to each new question is to be started on a fresh page.
- (4) Figures in the brackets on the right indicate full marks.
- (5) Assume suitable data wherever required, but justify it.
- (6) Support your answers with neat labelled diagrams, wherever necessary.

Question No.		Max. Marks
Q1 (a)	i. Describe any two prescriptive process models with neat-labelled diagram. <b>OR</b> ii. How extreme programming (XP) methodology can be applied for a software project development? Describe in details.	[10]  [10]
Q1 (b)	Define Software Engineering. Describe the nature of software in detail.	[05]
Q2 (a)	i. Describe requirement elicitation in detail. <b>OR</b> ii. What is requirement models? Describe Scenario Based Models in detail	[10]  [10]
Q2 (b)	Design a well-labelled UML class diagram for the hospital management system. Assume all necessary details.	[05]
Q3 (a)	Describe in detail with neat diagram the translation of Requirement Model into Design Model. <b>OR</b> Describe the modularity, information hiding & abstraction design concepts in detail.	[10]  [10]
Q3 (b)	List & describe the different design principles.	[05]
Q4 (a)	Prepare Risk information sheet (RIS) for following risk description. A Software development organization experiences a high staff turnover. Many projects are in a pipeline. Project manager found that employee turnover in industry can be as high as 31%. This is nearly double the average rate for other industries and can be expensive for businesses. So how can software businesses	[10]

	hold on to valuable staff for the long term?	
Q4 (b)	<p>Describe Product and Project Management Spectrum in detail.</p> <p style="text-align: center;"><b>OR</b></p> <p>What are the different types of stakeholders &amp; what role do they play in software development?</p>	<p>[05]</p> <p>[05]</p>
Q5 (a)	What is a DevOps toolchain? Explain in details.	[10]
Q5 (b)	<p>How Alpha and Beta testing is to be performed to uncover the errors for custom-built software? Explain in details.</p> <p style="text-align: center;"><b>OR</b></p> <p>Describe system testing with its various types of strategies</p>	[05]

All the Best!