

**ANURAG Engineering College**

(An Autonomous Institution)

**II B.Tech II Semester Supplementary Examinations, December – 2024****SOFTWARE ENGINEERING****(COMPUTER SCIENCE AND ENGINEERING)****Time: 3 Hours****Max. Marks: 60****Section – A (Short Answer type questions)****(10 Marks)****Answer All Questions**

	<b>Course Outcome</b>	<b>B.T Level</b>	<b>Marks</b>
1. Define software engineering.	CO1	L1	1M
2. Write the nature of software.	CO1	L1	1M
3. State the need for requirements gathering.	CO2	L1	1M
4. What is software requirement documentation in software engineering?	CO2	L1	1M
5. List the three models of UML.	CO3	L1	1M
6. Define class diagrams.	CO3	L1	1M
7. How function-based metrics can deal with the analysis model?	CO4	L1	1M
8. Write the metrics for software quality.	CO4	L1	1M
9. Define software risks.	CO5	L1	1M
10. Write the ISO 9000 quality standards.	CO5	L1	1M

**Section B (Essay Questions)****Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11. A) Difference between a software process and a software process model. Suggest two ways in which a software process model might be helpful in identifying possible process improvements.	CO1	L3	10M
<b>OR</b>			
B) Explain the Spiral model and Agile methodology.	CO1	L2	10M
12. A) Make a comparison between the Functional and non-functional software requirements.	CO2	L2	10M
<b>OR</b>			
B) Identify and explain four types of requirements that may be defined for computer-based system.	CO2	L3	10M
13. A) List the steps to represent task set for component-level design when applied for an object-oriented system.	CO3	L3	10M
<b>OR</b>			
B) Explain the use case diagrams and component diagrams.	CO3	L2	10M
14. A) Compare and contrast the block box testing and white box testing.	CO4	L3	10M
<b>OR</b>			
B) Explain the test strategies for conventional software.	CO4	L2	10M
15. A) Discuss the statistical software quality assurance.	CO5	L3	10M
<b>OR</b>			
B) Compare and contrast the reactive Vs proactive risk strategies.	CO5	L3	10M

