ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY(A)
(An AUTONOMOUS Institution)
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Accredited by **NBA*** Accredited by **NAAC A+** Grade with CGPA of 3.40
Recognized by UGC Under Sections 2(f) and 12(B) of the UGC Act, 1956
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COURSE NAME: SOFTWARE ENGINERRING

COURSE CODE: 231CM5E01

QUESTION BANK

S.No.	Question	RBT level	CO	Marks
UNIT-I				
1a.	Describe the Notable changes in software development practices.	L2	CO1	5
b.	Discuss about evolutionary process models.	L1	CO1	5
2a.	Explain software development life cycle. Discuss various activities during SDLC.	L1	CO1	5
b.	Explain waterfall process model with merits and demerits.	L2	CO1	5
3a.	Explain the concept of Computer system engineering?	L2	CO1	5
b.	Draw and explain the spiral model and list the advantage and disadvantages.	L1	CO1	5
4a.	Explain about Exploratory style of Developing a software?	L2	CO1	5
b.	Explain about Agile Process Models and its principles.	L2	CO1	5
5a.	Discuss about Software development projects and its types?	L3	CO1	5
b.	Perform prototype analysis on "railway reservation" software.	L4	CO1	5
6a.	Differentiate between waterfall and incremental model	L2	CO1	5
b.	Summarize the Evolution of Software Engineering Methodologies.	L2	CO1	5
UNIT- II				
1a.	Explain metrics for project size estimation.	L3	CO2	5
b	Discuss the desirable characteristics of a good software requirement specification document.	L1	CO2	5
2a.	Describe Software project management complexities in detail.	L1	CO2	5
b.	List and explain various requirements elicitation techniques.	L1	CO2	5
3a.	Illustrate the responsibilities of a software project manager in detail.	L2	CO2	5
b.	What are the different categories of software development projects according to the COCOMO estimation model? Give an example of software product development projects belonging to each of these categories.	L2	CO2	5
4a.	Briefly explain various project size estimation techniques with an example and compare the advantages and disadvantages of expert judgement and Delphi technique.	L1	CO2	5

b.	Explain the differences between functional requirements and non-functional requirements by giving suitable examples.	L2	CO2	5
5a.	What is the goal of requirements analysis phase? Give reasons why the requirements analysis phase is a difficult one.	L1	CO2	5
b.	Explain how you can choose the best risk reduction technique when there are many ways of reducing a risk.	L2	CO2	5
6a.	What do you understand by an executable specification language? How is it different from a traditional procedural programming language? Give an example of an executable specification language.	L1	CO2	5
b	Discuss the relative advantages of formal and informal requirements specifications.	L2	CO2	5