



SRI KRISHNA INSTITUTE OF TECHNOLOGY

(Accredited by NAAC, Approved by A.I.C.T.E. New Delhi, Recognised by Govt. of Karnataka & Affiliated to V.T U., Belagavi)
#29, Chimney Hills, Hesaraghatta Main Road, Chikkabanavara Post, Bengaluru- 560090

Department of Artificial Intelligence and Machine Learning

Subject Name: SOFTWARE ENGINEERING & PROJECT MANAGEMENT

Subject Code: 21CS61

SEM : VI

Issue date : 29/05/24

Faculty : Prof. Amar Sri.A

Submission date: 10/06/24

Assignment-1 Questions

SL#	Question	CO	Level	Marks
1.	What are attributes of good software? Explain Key Challenges Faced in Software Engineering.	CO1	L2	8
2.	With neat diagram explain waterfall development model of software development process	CO1	L1	6
3.	Explain general model of software design process	CO1	L1	6
4.	What is the requirement specification? Explain ways of system requirements.	CO1	L1	8
5.	What is object oriented development (OOD)? Explain OOD briefly.	CO1	L2	6
6.	What is object orientation? What are important characteristics of OO approach? Explain.	CO1	L2	8
7.	Describe model. Define the relationship between models.	CO1	L2	8
8.	Name the umbrella activities in software process.	CO1	L2	6
9.	Explain Boehm's spiral model of software process with a neat diagram.	CO1	L2	6
10.	Describe the different levels of Capability Maturity Model	CO1	L2	8
11.	Differentiate between Waterfall model and incremental model for software development?	CO1	L1	6
12.	How prototyping helps in software development	CO1	L3	5
13.	Explain software engineering as a layered technology	CO1	L2	6
14.	Discuss the maintenance aspects of software engineering.	CO1	L1	5
15.	Explain with suitable examples, the types of software development for which the spiral model is suitable. Is the number of loops of the spiral fixed for different development process? If not, explain how the number of loops in the spiral is determined.	CO2	L2	6



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16.	A university has decided to engage a software company for the automation of student result management system of its Mtech Programme. Develop the following documents which may provide holistic view of the system. i. Problem Statement ii. Context diagram iii. Use case diagram iv. ER diagram	CO2	L2	8
17.	What are the different stages in classic project life cycle? Explain?	CO2	L2	8
18.	Which model will work better Prototype or Spiral? Justify with proper example.	CO1	L1	8
19.	Explain three models of object orientation.	Co2	L2	8
20.	Explain the different stages in OO methodology	CO2	L2	8
21.	What are the different notations used in Use case diagrams? Give use case diagram for any subsystem of ATM machine.	Co2	L2	6
22.	Explain OO modeling history.	CO2	L2	8

Faculty Signature