Code No.: AD303PC

R20

H.T.No.

8 R

CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

II-B.TECH-I-Semester End Examinations (Supply) - August - 2023 SOFTWARE ENGINEERING (AI&DS)

[Time: 3 Hours]

[Max. Marks: 70]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

	PART-A (20 Ma	arks)
1. a)	What is Software engineering?	[2M]
b)	Describe the advantages of unified process model?	[2M]
c)	List out the metrics for specifying non-functional requirements.	[2M]
d)	Explain the purpose of context model.	[2M]
e)	List out the principles of a software design.	[2M]
f)	Describe architectural styles?	[2M]
g)	What are the objectives of testing?	[2M]
h)	What is meant by debugging?	[2M]
i)	List out the types of software metrics?	[2M]
j)	Discuss the reactive risk strategy?	[2M]
	PART-B (50 Marks)
2.	Explain the following:	, [10M]
	i) Water fall model	
	ii) Spiral Model.	
_	OR	F. 02 42
3.	Interpret the various levels of capability maturity model integration (CMMI)?	[10M]
4.	Explain clearly about software requirements document?	[10M]
	OR	
5.	Evaluate the operations involved in creating data models and object models?	[10M]
_		5100.63
6.	Illustrate the usage of sequence diagrams and collaboration diagrams with a neat sketch	1. [10M]
7.	5.1	[10]
/.	Explain briefly about the process of mapping dataflow into software architecture?	[10M]
8.	Explain in detail about white-box and black-box testing techniques?	[10M]
	OR	•
9.	Discuss about metrics for design model and source code?	[10M]
10.	Describe the basic concepts related to software quality assurance in detail.	[10M]
	OR	
11.	Explain the following:	[10M]
	a) Risk projection	
	b) Software reviews.	
