

**BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY & SCIENCE  
(AUTONOMOUS)**

**III-B.Tech I-Semester Regular Examinations (BR23), November - 2025**

**PRICIPLES OF SOFTWARE ENGINEERING**

**(Minor in CSE)**

Time: 3 hours

Max. Marks: 70

*Question Paper consists of Part-A and Part-B  
Answer **ALL** the question in **Part-A and Part-B***

**PART-A (10X2 = 20M)**

		Marks	CO	BL
1. a)	Outline Computer System Engineering?	(2M)	CO1	BL1
b)	Differentiate RAD Vs Agile Model	(2M)	CO1	BL3
c)	Outline the Responsibilities of Project Manager?	(2M)	CO2	BL2
d)	Identify the Characteristics of Good SRS?	(2M)	CO2	BL2
e)	Define Cohesion and Coupling?	(2M)	CO3	BL2
f)	Define Extreme Programming?	(2M)	CO3	BL2
g)	Outline black box testing?	(2M)	CO4	BL2
h)	Outline Statistical Testing	(2M)	CO4	BL3
i)	Illustrate about CASE Tools	(2M)	CO5	BL2
j)	Illustrate Software Reuse?	(2M)	CO5	BL2

**PART-B (5X10 = 50M)**

2a.	Outline the Emergence of Software Engineering with neat sketch?	5(M)	CO1	BL4
b.	Explain about V Model	5(M)	CO1	BL3
(OR)				
3a.	Outline Notable changes in Software Development practises?	5(M)	CO1	BL2
b.	Explain about Spiral Model with neat diagram	5(M)	CO1	BL3

a.	Compare and contrast LOC Vs Function point metric?	5(M)	CO2	BL3
b.	Outline about Requirements Gathering and Analysis?	5(M)	CO2	BL2
(OR)				
5a.	Explain about various Project Estimation Techniques?	5(M)	CO2	BL3
b.	Outline about Formal System Specification?.	5(M)	CO2	BL3

6a.	Illustrate the Over view of Design Process?	5(M)	CO3	BL3
b.	Outline Fundamentals of Component based GUI development?	5(M)	CO3	BL3
(OR)				
7a.	Demonstrate how to characterise a good Software Design?	5(M)	CO3	BL3
b.	Demonstrate the development of DFD model of a system?	5(M)	CO3	BL3

8a.	Classify different types of Testing methods?	5(M)	CO4	BL3
b.	Outline about SEI Capability Maturity Model?	5(M)	CO4	BL3

(OR)				
9a.	Briefly explain Program Analysis Tools?.	5(M)	CO4	BL3
b.	Outline Software Quality Management System?	5(M)	CO4	BL3

10a	Explain about CASE support in SDLC?	5(M)	CO5	BL2
b.	Explain about basic issues in any reuse program?	5(M)	CO5	BL2
(OR)				
11a	Outline the Architecture of CASE Environment?	5(M)	CO5	BL2
b.	Outline the characteristics of Software Maintenance ?	5(M)	CO5	BL3

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Staff

  
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