CourseCode:24BC4T13

BONAMVENKATACHALAMAYYAINSTITUTEOFTECHNOLOGY&SCIENCE

(AUTONOMOUS)

II-BCAII-SemesterModelPaper (BR24),june-2026

SOFTWARE ENGINEERING(BCA)

Time: 3 hours **Max.Marks:70**

Question Paper consists of Part-A and Part-B Answer ALLthequestioninPart-AandPart-B

PART–A(10X2 =20M)

		Marks	CO	BL
1.a)	Define Software Engineering	(2M)	CO1	BL1
b)	What are extensions of Waterfall Model	(2M)	CO1	BL1
c)	List responsibilities of a project manager.	(2M)	CO2	BL2
d)	What is SRS?	(2M)	CO2	BL1
e)	What is Cohesion?	(2M)	CO3	BL1
f)	Define DFD.	(2M)	CO3	BL2
g)	What is White-box testing?	(2M)	CO4	BL1
h)	What is ISO 9000	(2M)	CO4	BL1
i)	What is Reverse Engineering	(2M)	CO5	BL1
j)	What is Software Reuse?	(2M)	CO5	BL1

PART–B(5X10=50M)

	UNIT-I			
2a.	Describe Spiral Model with diagram and risk analysis.	10M	CO1	BL2
	OR)			
3	a) Explain evolution of software engineering. b) Explain Waterfall Model with diagram, advantages & disadvantages.	5M 5M	CO1	BL3
	UNIT-II			
4a.	DiscussExplain COCOMO Model and itstypes with examples. .	10M	CO2	BL3
	(OR)			
5a	Explain requirement analysis and specification in detail.	10M	CO2	BL3
	UNIT-III			
6a	illustrate Cohesion and Coupling with examples and explain their importance.	10M	CO3	BL4
	(OR)			
7a.	Describe SA/SD methodology and explain structured analysis process.	10M	CO3	BL2

	UNIT-IV			
8	Discuss Software Testing and explain Black-box and White-box testing techniques.	10M	CO4	BL2
	(OR)			
9a.	Determine Six Sigma and other software quality standards.	10M	CO4	BL3

	UNIT-V			
10a.	Explain Software Maintenance and discuss its characteristics.	10M	CO5	BL3
	(OR)			
11a.	Discuss Software Reuse and explain its advantages and issues	10M	CO5	BL2

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