K. J. Somaiya Institute of Information Technology, Sion, Mumbai-22 (Autonomous College Affiliated to University of Mumbai) : AIC503 Subject Name: Software Engineering Date:

Subject Code: AIC503

Date: 2/12/2023

	Nov – Dec 2023	OWI VIEW	<u> </u>					
	. Tech) Program: B.Tech. (Artificial Intelligence and Data Science) Examinate Durse Code: AIC503 Course Name:							
Dura	tion: 2.5 Hours	Max. Marks: 60						
(1) A (2) D	ructions: All questions are compulsory. Oraw neat diagrams wherever applicable. Assume suitable data, if necessary.							
	on the COCOMO-11 model.	Max. Marks	СО	BT level				
Q 1	Solve any six questions out of eight:	12	gx3	(m)				
i)	Distinguish between Verification and Validation.	2	4	Е				
ii)	What is re-engineering?	2	6	U				
iii)	What are the drawbacks of waterfall model?	2	1	R				
iv)	Explain prescriptive process models.	2	1	U				
v)	What do you mean by Software Configuration Management?	2	5	U				
vi)	What is black box testing?	2	6	R				
vii)	Explain Context Level DFD.	2	2	U				
viii)	What is functional Independence?	2	3	R				
Q.2	Solve any four questions out of six.	16						
i)	Differentiate between Cohesion and Coupling.	4	3	R				
ii)	Develop class diagram for Hospital Management System	4	4	С				
iii)	Explain adaptive and perfective maintenance.	4	6	R				
iv)	Explain non functional requirement for Library Management System	4	4 1	Е				
v)	Prepare project schedule with Gantt chart /Timeline chart for Railway Management System.	4	2	С				
vi)	Explain Formal Technical Review (FTR).	4	5	R				

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Q.3	Solve any two questions out of three.	16			
i)	Explain Extreme programming (XP)	8 7	8 1 U		
ii)	What is cohesion? Explain different types of cohesion.	8 4 U			
iii)	Differentiate between WBT and BBT.	8	5	U	
Q.4	Solve any two questions out of three.	16	t WESC	(2) Draw (3) Assur	
i)	Explain types of cohesion with example.	8	3 AN 2 R		
ii)	Write a note on the COCOMO-II model.	8			
iii)	Explain change control.	8	6	U	

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(mi			
	What is black box testing?		
	What is functional Independence?		
	Solve any four questions out of six.		
- 9			
	Explain adaptive and perfective maintenance:		