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9 ISR	OLI-AFWA	COMPLITER ENCIN	FERING DEPARTMENT
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		FORMAT FOR ASSIGNM	IENTS
Course Na	ame (With Cod	de): Introduction to Software Engine	eering (4340702)
Semester /	Year: Forth/S	Second	
Assignmen	nt Number: 1		
Assignmen	nt CO Number	r: 4340702.a	
Sr. No.		Questions related to Co	urse Outcomes
Part – A	Questions ca	rrying 2 Marks	
1	Define: softwa	ire, software engineering	
2	List out umbre		
3	Justify: softwa	are doesn't wear out.	
4	Differentiate between program and software product.		
5	Discuss software characteristics in brief		
0	List different software process framework activities.		
/	Write down any two software Myths.		
0	Justify: Software is engineering not manufactured.		
9	write down need of software engineering. Justify: spiral model can be viewed as meta model		
10	Further organic type of project development		
12	State situation where RAD model is used		
13	Define organic embedded system		
14	When Prototype Model is used?		
15	Define: SDLC, List out various life cycle models.		
Part – B	Ouestions carrying 3 Marks		
1	Justify: software doesn't wear out		
2	Explain software characteristics		
3	Explain software engineering layered approach with neat figure		
4	Justify: Why there is a need of software engineering.		
5	Explain qualities of good software		
6	Explain Umbrella activities with diagram.		
7	Explain Software Process Framework Activities.		
8	Compare Application Software and System Software.		
Part – C	Questions ca	rrying 4 Marks	
1	Discuss any two Software Myths		
$\frac{2}{2}$	Discuss the characteristics of Software.		
5	why Software Engineering is known as layered technology?		
4	Write a short note on RAD model		
5	while a short hole on KAD model.		
0	Define SDLC. Explain feasibility study and design phase of waterfall model in brief.		

7	Explain Spiral Model with Diagram.		
8	Explain Waterfall Model.		
9	Explain Iterative Waterfall Model.		
Part – D	Questions carrying 7 Marks		
1	What is Software Engineering? Explain Layer Technology approach with neat Figure.		
2	Explain: (a) Software Myths (b) Quality of good software		
3	Explain Spiral Model in brief		
4	Explain RAD model with diagram also write down its advantages and disavantages.		
5	Explain Incremental model with necessary diagram.		
Prepared By: (Name of Faculty (ies)) withSignature of Head ofsignature		Signature of Head of Department	

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ST ISR	COMPUTER ENGINEERING DEPARTMENT			
		FORMAT FOR A	SSIGNMENTS	
Course Na	me (With Co	de): Introduction to Softwar	re Engineering (4340702)	
Semester /	'Year: Forth/	/Second		
Assignmen	nt Number: 2			
Assignmen	nt CO Numbe	er: 4340702.b		
Sr. No.		Questions relat	ed to Course Outcomes	
Part – A	Questions ca	arrying 2 Marks		
1	Define cardina	ality.		
2	Define cardina	ality and modality.		
3	Define SRS. I	List out content of SRS.		
4	Define Functional Requirements.			
5	Explain data attributes.			
6	Describe cohesion and coupling.			
7	Justify: high cohesion and low coupling is better for any software development.			
Part – B	Questions carrying 3 Marks			
1	Differentiate between functional and non-functional requirements.			
2	Explain client server architecture.			
3	Explain classification of design activities			
4	What is Non-Functional Requirements.			
5	What is Data Objects?			
6 D ()	Write a short note on pipe and filter architecture.			
Part - C	Questions carrying 4 Marks			
1	Write a short	Write a short note on "classification of design methodologies".		
2	Define cohesi	on. Explain its classification.		
3	Define couplin	Define coupling. Explain its classification.		
4	Explain design process.			
5	Explain ER diagram.			
	Explain Object oriented Design.			
/ 0	Explain Requirement gathering activities.			
0	Uscuss Architecture patterns.			
7 Part D	what are characteristics of good SKS? Questions corruing 7 Morks			
1 art – D	Explain Requi	Questions carrying / Marks Explain Paguiroment Cathering & analysis process in brief		
2	Explain Cobe	ohesion & Coupling in Software Engineering		
3	What is SRS? Write characteristics of good SRS document in brief			
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VSROLI-AFWA		COMPUTER ENGINEERING DEPARTMENT		
		FORMAT FOR A	SSIGNMENTS	
Course Na	me (With Co	de): Introduction to Softwar	e Engineering (4340702)	
Semester /	Year: Forth	Second		
Assignmen	nt Number: 3			
Assignmen	nt CO Numbe	er: 4340702.c		
Sr. No.		Questions relat	ed to Course Outcomes	
Part – A	Questions ca	arrying 2 Marks		
1	Draw symbols	s used in data flow diagram.		
2	Give full form	n of: LOC, COCOMO		
3	Give full form	n of: CPM, WBS		
4	Give full form	h: PERT, CPM		
5	What is Estimation?			
6	List any Two Tools used in Data Flow Diagram.			
7	List Project Estimation Techniques.			
8	Define Risk.			
9	Listout types of COCOMO models.			
10	Define:Project Monitoring and Project Controlling			
Part – B	Questions carrying 3 Marks			
1	Explain PMC	in brief.		
2	Explain in brief: use case diagram.			
3	Write advantages and disadvantages of DFD.			
4	Write a short note on activity network.			
5	Explain primitive symbols used in DFD.			
6	Discuss the responsibilities of software project manager.			
7	Explain activity diagram in brief.			
8	List metrics for Project Size Estimation. Explain any one Project Size Estimation metric.			
9	Explain Class Diagram.			
10	Explain the work break down structure.			
11	What is GANTT chart? How to plan GANTT chart?write its advantages and Disadvantages			
Part – C	Questions carrying 4 Marks			
	Write a short note on FP			
2	Explain components of activity diagram.			
5	Explain use-case diagram			
4	Explain complete COCOMO model			
5	Explain Deiphi cost estimation technique.			
0	List UNL diagram. Explain Use Case Diagram.			
	Explain Empirical Estimation Techniques.			
8	What do you mean by project monitoring and control?			

9	Discuss the Metrics for Size Estimation.		
10	What is RMMM plan?		
11	Discuss different types of Risks involve in Software Development.		
12	Explain:1)Activity Network 2)Critical Path Method(CPM)		
Part – D	Questions carrying 7 Marks		
1	What is DFD? Explain its symbol with one suitable example		
2	Explain various categories of Risk Management.		
3	Explain Line of Code (LOC) and Function Point Technique		
4	Explain complete COCOMO Model.		
5	Explain Heuristic Estimation Technique.		
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Course Na	me (With Co	de): Introduction to Softwar	re Engineering (4340702)
Semester /	Year: Forth/	Second	
Assignmen	nt Number: 4		
Assignmen	nt CO Numbe	er: 4340702.d	
Sr. No.		Questions relat	ed to Course Outcomes
Part – A	Questions ca	arrying 2 Marks	
1	Differentiate between validation and verification.		
2	Define unit testing.		
3	Write a short note on white box testing methods.		
4	What is testing?		
5	Explain Test case.		
6	What is Code review?		
Part – B	Questions carrying 3 Marks		
1	Write a short note on code walk through.		
2	Write a short note on unit testing.		
3	Write a short note on test documentation.		
4	Explain software documentation.		
5	Explain code inspection.		
6	Write a short note on white box testing methods.		
7	Compare Black box and White box testing		
Part – C	Questions carrying 4 Marks		
1	Define black box testing method. Explain any one black box testing method.		
2	Write a short on unit testing.		
3	Differentiate between Internal Documentation and External Documentation.		
Part – D	Questions carrying 7 Marks		
1	Explain in brief: white box testing method.		
2	Explain : (a) Unit Testing (b) test documentation		
Prepared l	By:		Signature of Head of Department