## TILAK MAHARASHTRA VIDYAPEETH, PUNE MASTER OF SCIENCE (M.Sc) in COMPUTER APPLICATIONS EXAMINATION : JUNE / JULY - 2022 SEMESTER - II

SEMESTER - 11 Sub: Advanced Software Engineering (MSC-204-19)					
Date : 04/07/2022			Marks: 60	Time: 2.00 pm to 04.30 pm	
<i>Instruc</i> 1. 2. 3. 4. 5. 6.	ction: All questions are compulsory unless and otherwise stated. Bold figures to the right of every question are the maximum marks for that question. Candidates are advised to attempt questions in order. Answers written illegibly are likely to be marked zero. Use of scientific calculators, Log tables, Mollier Charts is allowed. Draw neat and labelled diagrams wherever necessary.				
Q.1	Answer the following in 2-3lines. (Any 5)				(10)
	1.	What is Software engineering? Sta	ate the phases of sy	ystem development lifecycle.	· · ·
	3.	What all types of relationships ma entities) Explain the concept of message pa design. Why is testing an important phase	assing in case of o	_	
	5.	What is the difference between an	E-R diagram and	a Class diagram?	
	6.	What are advantages of prototypin	ig data model?		
	7.	What are the characteristics of goo	od software?		
Q.2	Answer the following in short. (Any 4)				(20)
	1.	Explain what are a decision tree a	and a decision tabl	e with an example.	
	2.	What are functional requirements	and non function	al requirements?	
	3.	Explain any two fact finding tech SDLC.	niques used in req	uirement analysis phase of	
	4.	<b>F</b> 1 1 1 1 00 0 1	ationships that may	y exist between Things in	
	5.	Explain difference between Wate	rfall model and Sp	biral model.	
	6.	What is a functional decompositi	on diagram? Give	an example.	
Q.3	Answer the following in detail. (Any 3)				(30)
	1.	Explain different phases of SDLC	2.		
	2.	Explain characteristics of good S	ystem requiremen	t specification.	
	3.	Draw a Data Flow diagram for he	ospital managemen	nt system.	
	4.	What are different types of diagra	ams used in UML	?	

5. Draw an Entity Relationship diagram for Hotel management system.

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