Total	l No.	of Questions: 10] SEAT No.:
P33	90	[Total No. of Pages : 2
		[5353] - 593
		[5353] - 593 T.E. (IT)
SC	FT	WARE ENGINEERING AND PROJECT MANAGEMENT
		(2015 Pattern)
Time	$2:2\frac{1}{2}$	[Max. Marks: 70
Instr	uctio	ons to the candidates:
	<i>1)</i>	Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10.
	2)	Draw neat diagrams and assume suitable data wherever necessary.
	3)	Figures to the right indicate full marks.
<i>01)</i>	a)	Explain any 5 types of software along with an example. [5]
2-)	b)	What is data modeling? Explain following terms in data modeling: [5]
	U)	
		• Data objects.
		Data attributes.
		Relationships.
		OR
<i>Q2)</i>	a)	What are different processes in project time management? [5]
	b)	How to prioritize software requirements based on Kano Analysis? [5]
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<i>Q3</i>)	a)	What is meant by network diagram? What are different ways of drawing
		the network diagram. [5]
	b)	Explain spiral model in detail. [5]
		OR
Q4)	a)	Explain in detail following UML diagrams stating purpose and applicability
		[6]
		i) Use case diagram.
		ii) Activity diagram.
	b)	Discuss software myths and realities in customer perspective. [4]

Q5) a)	Draw and explain concept of SCRUM. [8]
b)	Explain concept of burn-down chart with a diagram. [8]
	OR
Q6) a)	Explain Pair Programming and its benefits. [8]
b)	Explain Agile manifesto and agility principles. [8]
Q7) a)	What is Software Risk Management? What are the risks associated with software projects? How do project managers manage such risks. [10]
b)	Differentiate between Software Quality Assurance & Software Quality Control. [8]
	OR
Q8) a)	Define and explain importance of Software Quality Assurance. Explain various factors that affect Software Quality. [10]
b)	Explain different statistical tools used quality control. [8]
Q9) a)	What is the goal of cleanroom testing? Discuss in brief statistical use
	testing. How do we certify a software component in cleanroom testing? [8]
b)	What is configuration management repository? Discuss role and features
	of SCM repository. OR
Q10) a)	What are the challenges of global software development? [8]
b)	Explain in detail ERP implementation life cycle. [8]