Total No. of Questions: 8]	26	SEAT No. :	
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[6261]-37 S.E. (Computer Engineering) (AI & DS) SOFTWARE ENGINEERING (2019 Pattern) (Semester- IV) (210253)

Time	: 21	½ Hours] [Max. Marks : 70
Instr	ucti	ions to the candidates.
	<i>1</i>)	Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
	<i>2</i>)	Neat diagrams must be drawn wherever necessary.
	<i>3</i>)	Figures to the right indicate full marks.
	<i>4</i>)	Assume suitable data if necessary.
Q 1)	a)	What is project scheduling? Explain in brief about the basic principles
		guiding the s/w project scheduling [6]
	b)	What is the need of project Estimation? What are the steps while estimation
		of software? [6]
	c)	
00)		with suitable example. [6]
Q2)	a)	What is the difference between COCOMO and COCOMO II Model?[6]
	b)	What is the necessity of Estimation? How estimation with Use-cases is performed? [6]
	c)	
		of software engineering resources (Project Resources)? [6]
Q 3)	a)	Explain the following design concepts: [6]
		i) Abstraction
		ii) Patterns
		iii) Modularity
	b)	What is meant by coupling and cohesion. Explain these terms in relation with good software design. [6]
	c)	
		classes? [5]

OR

Q 4)	a)	Explain in detail the Architectural design and Component level design elements. [6]	
	b)	What is software Architecture? What is architectural context diagram?[6]	[]
	c)	Write short note on 'Interface analysis and design models'. [5]
Q 5)	a)	Briefly explain the steps involved in risk planning in project development [6]	
	b)	Describe with an example how the effect of risk on project schedule is evaluated using PERT. [6]	
	c)	Explain Version Control and Change Control Layer in Softward Configuration Management in detail. [6]	
		OR SOLUTION	
Q6)	a)	Discuss Software Configuration Management in detail. [6]
	b)	Define Software Risk in detail. What are different types of Software Risk?	
	c)	Discuss the RMMM plan in detail. [6]
Q 7)	a)	What are the guidelines those lead to a successful software testing strategy?	(
	b)	What is meant by integration testing? Explain top down and bottom up integration testing.	· •
	c)	What is the difference between verification and validation? [5	
		OR OR	
Q 8)	a)	Differentiate between black box testing and white box testing. [6]	,]
	b)	Explain how Object oriented software testing is different from conventional software testing. [6]	
	c)	Explain Unit Testing and Integration Testing with respect to the Object Oriented Context. [5]	