Total No. of Questions :	8]	SEAT No. :
PB4397	[6261]-37	[Total No. of Pages :2
S.E.	. (Computer Engineering) (A	AI & DS)
	SOFTWARE ENGINEERI	NG (
(201	19 Pattern) (Semester- IV) (	(210253)

Time	: 21/2	Hours ] [Max. Marks: 70
Instr	uction	ns 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 switable data if necessary.
		92.7°
<b>Q</b> 1)		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)	How are LOC and FP used during Project Estimation? Explain any one with suitable example. [6]
		OR
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)	What is the need for defining a software scope? What are the categories
		of software engineering resources (Project Resources)? [6]
<b>Q</b> 3)	a)	Explain the following design concepts:  i) Abstraction [6]
4	U	ii) Patterns iii) Modularity
1	<b>b</b> )	What is meant by coupling and cohesion. Explain these terms in relation
	b)	what is meant by coupling and conesion. Explain these terms in relation with good software design. [6]
	c)	What is the importance of software design. What are types of design
	- /	classes? [5]

OR

<b>Q4</b> )	a)	Explain in detail the Architectural design and Component level design elements.	gn [ <b>6</b> ]
	b)	What is software Architecture? What is architectural context diagram?[	<b>6</b> ]
	c)	Write short note on 'Interface analysis and design models'.	5]
<b>Q</b> 5)	a)	Briefly explain the steps involved in risk planning in project development	nt. <b>6</b> ]
	b)	Describe with an example how the effect of risk on project schedule evaluated using PERT.	is [6]
	c)		re [6]
		OR SINGLE	
<b>Q6</b> )	a)	Discuss Software Configuration Management in detail. [	<b>6</b> ]
	b) (	Define Software Risk in detail. What are different types of Softwa Risk?	re [6]
	c)	Discuss the RMMM plan in detail.	6]
<b>Q</b> 7)	a)	What are the guidelines those lead to a successful software testin strategy?	ng [ <b>6]</b>
	b)	What is meant by integration testing? Explain top down and bottom integration testing.	цр 6]
	c)	What is the difference between verification and validation?  OR	[5]
<b>Q</b> 8)	a) 🧪	Differentiate between black box testing and white box testing.	<b>6</b> ]
~ /	b)	Explain how Object oriented software testing is different from convention	_
(	c)	Explain Unit Testing and Integration Testing with respect to the Obje	