Total ?	No. of Questions : 12]	SEAT No. :
P331	14	[Total No. of Pages : 2
	[5353]-	189
	T.E. (Computer Enginee	ering) (Semester - II)
	SOFTWARE EN	GINEERING
	(2012 Pa	ttern)
Time .	: 2.30 Hours]	[Max. Marks : 70
Instru	ictions to the candidates:	•
j	1) Neat diagrams must be dravn where	vver necessary.
,	2) Figures to the right indicate full ma	rks.
	3) Assume Suitable data if necessary.	,
4	4) All questions are compulsory.	
	<u>Unit-</u>	
	What is meant by engineering the sorequired?	oftware? Why software processes are [7]
_	What are the objectives of Persona Software Process (TSP)? <u>Unit-l</u>	Software Process (PSP) and Team [7] <u>I</u>

Q3) What are requirements engineering tasks? How use cases can be used to model the requirements? [7]

OR

Q4) Explain the analysis model with its elements? How analysis classes are identified? [7]

Unit-III

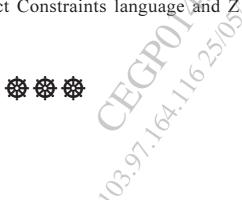
Q5) What is the relationship between modularity & functional dependence? Explain with example.[6]

OR

Q6) What is the relationship between user model and design model? Explain with example.[6]

Unit-IV

Testing follows an Outward approach, starting at Component level and **Q7)** a) moves towards component integration. Justify with suitable example. [9] Explain Condition testing and data flow testing with example. b) [8] What is the difference between test stub and driver? Define Cyclomatic **Q8**) a) Complexity? [9] What categories of errors are traceable using Black Box testing? Explain b) in brief. **Unit-V** Explain the change control mechanism in software configuration **Q9**) a) management with example. Compare software metric and measurement. State the measurement b) principles. What is LOC - based estimation? Explain with a suitable example. **Q10)**a) What is Risk identification? What are the different categories of risks?[8] b) Unit-VI What is software quality and how it is measured? Give suitable example. [8] *Q11)*a) What is Service oriented architecture (SOA)? How SOA helps software b) engineers? OR



Differentiate the Object Constraints language and Z specification

[8]

[8]

What are characteristics and benefits of SOA?

*Q12)*a)

b)

language?