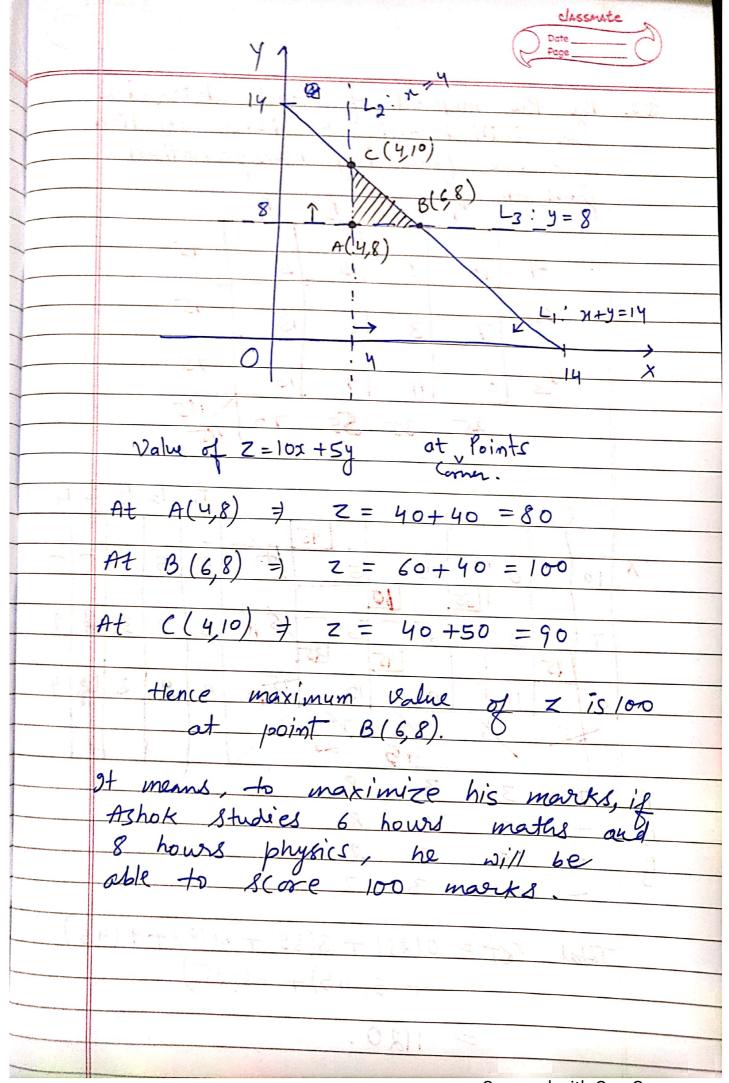
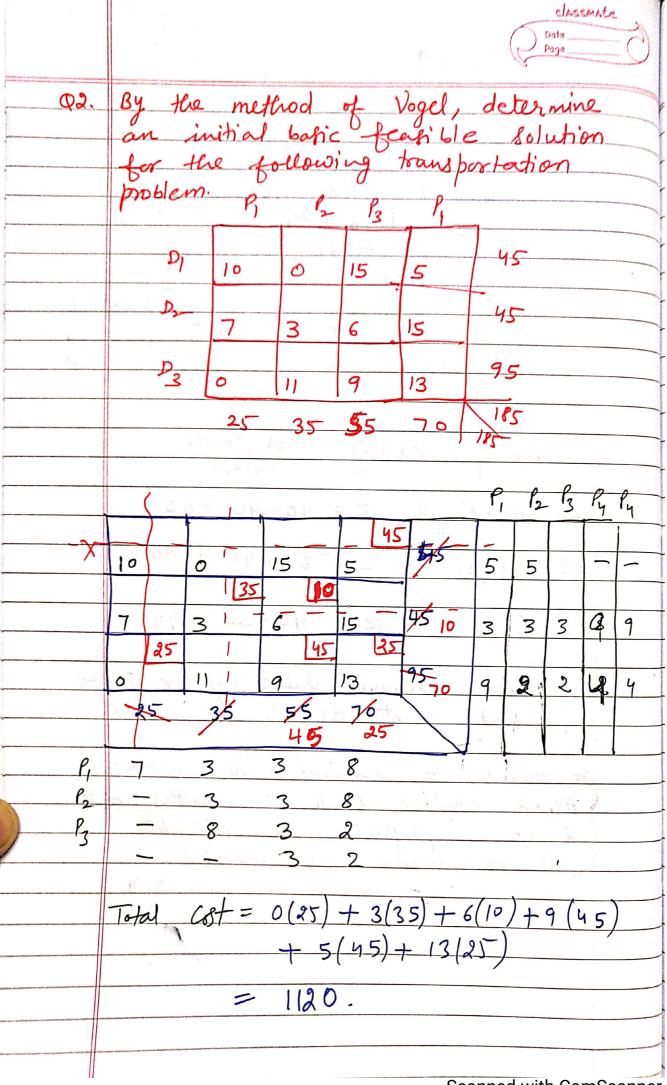
2012 CSE



φ1.	For each hour per that Ashok studies
	and has each love that he studies
	physics third do so 5 marks.
	and for each hour that he studies physics, it yields him 5 marks.
	The can stage agreed at least 40
	day and he must get atleast 40
	marks in each. Detormine justing
	how many hours a day he shows
	study maths and physics control of
	marks in each. Determine grophically how many hours a day he should study maths and physics each, in order to maximize his marks? (12)
	het x be no. of hours Ashok studies maths per day, and y be no. of hours he studies physics per day
	maths per day, and y be no. of
	hours be studies physics per day
	Hence L.P.P. can be formulated as
	U
	Max z = 10x + 5y
	Subject to
	Subject to $x+y \leq 14$
	10x ≥ 40
	5 y ≥ 40
	n 20, y 20
<u> </u>	Let us solve it graphically
	$L_1: x+y=14$
	L2 + x = 4
	L3: y = 8





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