

## SECTION B

6.	The ratio of speed of a motorboat and that of the current of water is 36: 5. The boat goes certaindistance along with the current in 5 hours 10 minutes how much time will it take to come back?A:- 41x Multiplied by $31/6 = 31x$ multiplied by tt = 41/61m		me back?	2
7.	-	ent has been followed by two conclusions. Find whic Conclusion 2: C <d< td=""><td></td><td>2</td></d<>		2
	A:- No conclusion is true			
8.	Pipes A and B can fill a tank in six hours and eight hours respectively pipe C can empty it in 12 hours, if all the three pipes are open together find the time in which the tank can be filled.		it in 12 hours,	3
	A: $-\frac{1}{6} + \frac{1}{8} - \frac{1}{12}$		2m	
	$\frac{\frac{24}{5}}{\frac{24}{5}} = 4\frac{4}{5}$ hours		1m	
9.	Solve (a) $4x+3 \le 6x+7$			3
5.	(b) 3x-7 > 5x -1			0
	A:- (a) [-2,͡?)		1.5m	
	(b) (-?,-3)		1.5m	
10.	(a) How many kg of sugars costing Rs. 45 per kg must be mixed with 30KG sugar costing Rs. 35 per kg			5
	so that there may be a gain of 12% by selling the mixture at Rs. 47.04 per kg?			
	machine operator and labours is	r of the entire staff of a polythene bag manufacturing <b>7500</b> . The average salary per head of the machine op the number of workers in the unit if there are 3 mach	erator is <b>25000</b>	
A:-	(a)Selling prize as 42 rupees			1
	Ratio as 3 ratio 7		1	
	70 kg			1
	(b)Till formation of ratio			1
	X= 38			1
11.	A manufacturer has 1125 litres of low concentrated acid solution.	45% acid solution. He wants to dilute it by adding wa	ater or some	5
	<ul><li>Based on the above information, answer the following questions:</li><li>(i) Find the minimum volume of water that should be added so that resulting mixture will</li></ul>			
	contain less than 30% acid content.			
	(ii) Find the volume of water that should be added so the resulting mixture will contain more than 25% but less than 30% acid content.			
		had its acid solution should be added so that the resu	Ilting mixture	
	will contain at least 42 .5		0	
A:-	(i) X > 562.5			2
	(ii) 562.5 <x<900< td=""><td></td><td></td><td>2</td></x<900<>			2
	(iii) X< 375			1