

Question	Answer	Marks	AO Element	Notes	Guidance
1(a)	160 (mm) (1) 242 – 82 (1)	2			
1(b)	920 (mm of mercury)	1			
2	7.20 (s)	1			
3(a)	21 (cm ³)	1			
3(b)	0.2(0) (cm ³) (1) (average volume of one drop) = 4(.0) / 20 (1) (volume = 25 – 21 =) 4(.0) (cm ³) (1) total volume = number of drops (average) × volume of one drop (1)	4			
4(a)	metre rule	1			
4(b)	50 (m)	1			
5	0.11 (mm) (1) (average thickness =) 29 ÷ 270 (1) (average thickness =) total thickness ÷ number of sheets (1)	3			

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6	84 (cm ³)	1			
7	24 (cm ²) (1) (area in contact with ground) = length × width OR 12 × 2(.0) (1)	2			
8	0.3(0) (cm ³) (1) (average volume of one drop) = 60 ÷ 200 (1) total volume = number of drops × (average) volume of one drop (1)	3			
9(a)	226.5 (s) (1) 180 (+ 46.5 =) (1)	2			
9(b)	1.1 (s) (1) time for one drop = total time ÷ no of intervals (1)	2			
10(a)	66.4(0) (s)	1			
10(b)	3.3(2) (s) (2) OR ALLOW 66.4 ÷ 20 (1)	2			

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11	measuring cylinder	1			
[Total: 28]					