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Confidential

MARK SCHEME

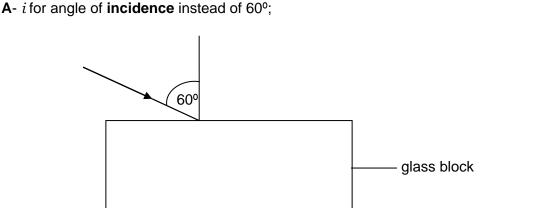
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MARKS: 40

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1	D;		[1]
2	(a)	chromatography;	[1]
	(b)	locating agent;	[1]
3	s=d/	t OR s=100/3;	[1]
	33.3	m/s;	[1]
4	irrev	ersible/new substance formed/releases energy;	[1]
5	speed is increasing (acceleration)/ acceleration decreases, oe;		[1]
	non-	uniform;	[1]
6	(a)	A ;	[1]
	(b)	C and D;	[1]
	(c)	B ;	[1]
7	A: live;		[1]
	B: n	eutral;	[1]
8	stronger forces of attraction between the solid particles:		[1]
	solid particles vibrate in fixed positions while liquid particles move from place to place within the liquid/particles are fixed in a solid and cannot move, while they can move round in a liquid;		[1]
9	kill cancer cells/sterilisation/detecting fractures in pipes;		[1]
10	A: le	ad compounds/ oxides of nitrogen/carbon dioxide/unburned hydrocarbons;	[1]
	B: in	complete combustion of carbon-containing compounds (fuels);	[1]
11	lose	s energy as it swings/some energy converted to heat/loss of gpe/loss in height;	[1]
	due	to air resistance (friction);	[1]
12	diffe	rent sizes of metal atoms make arrangement of lattice less regular;	[1]
	prev	enting layers from sliding easily;	[1]

13 (a) correctly indicated (normal and angle);



[1]

Fig. 4.1