Practice Question Set For GCSE

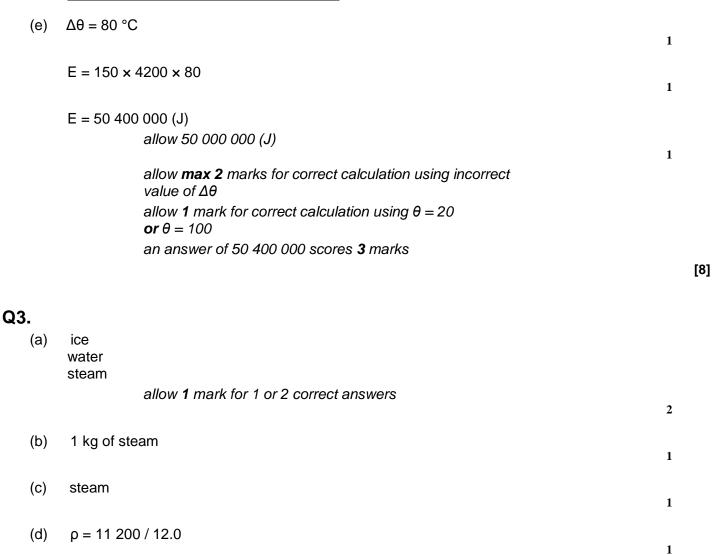
Subject : Physics

Paper-1 Topic: Particle Model Of Matter (Low Demand)



Name o Max. Ma	Time : 23 Minutes				
Mark Sc					
Q1.					
(a)	they change				
		deflected/reflecte	d/repelled		1
(b)		an answer of 0.00	00 03 (nm) o	⁻ 3.0 × 10 ⁻⁵ (nm) scores 2 marks	
		0.18	, o oo () o.	olo n ro (inny ocorec 2 maine	
	diameter =	6000			1
	= 0.000 030				
		allow 3.0 × 10⁻⁵ (r	nm)		1
(c)	Α				1
(d)	1100 (°C)				1
(e)					
		allow 12 (minutes	:)		1
(f)	the rate of c	change of tempera	ture of the g	old	1
					[7
Q2.					
(a)	gamma				1
(b)	alpha				1
(c)	gamma				1
(d)			T		
	isotope	number of neutrons	number of		

			protons
uranium-238	146	uranium-238	92
thorium-234	144	thorium-234	90



(e) the internal energy of the iceberg increases

allow there is a temperature difference between ice and water / air

because

 $\rho = 933 \, (kg/m^3)$

therefore

energy is transferred from the sea/water to the ice(berg)

an answer of 933 (kg/m³) scores **2** marks

1

[8]

1

1

1

1