Question number		Answer	Notes	Marks
4 (a) ((i)	0.717; N;	allow 0.7, 0.72, 0.70, 0.703 allow newton(s) condone n marks are independent	2
(1	ii)	density = mass / volume;	allow symbols, e.g. ρ = m/V, d = m/V or rearrangements	1
(i	iii)	substitution OR rearrangement; evaluation; e.g.	-1 for POT error	2
		8960 = 0.0717 / V OR V = m / ρ (V =) 8.00 × 10 ⁻⁶ (m ³)	allow 8×10^{-6} , 8.002×10^{-6} answer does not need to be in standard form e.g. 0.000008 (m ³) gets both marks	
(b) ((i)	bar chart / bar graph;	accept column graph condone histogram	1
(1	ii)	steel is more dense; OR granite is less dense;		2
		steel is (approximately) 3× denser;	allow ratio of densities in range 2.8-3.1 ignore comparison of masses accept correct values of both densities for 2 marks e.g. steel = 7900 kg/m³ granite = 2700 kg/m³ tolerance ±100 on each	

Question number	Answer	Notes	Marks	
6	any two advantages: MP1. idea that fuel will last for a long time;	ignore idea that fuel is limitless / will not run out	4	exp
	MP2. high energy density of fuel;	allow idea that a small amount of fuel yields a lot of energy		
	MP3. no CO2 emissions / no greenhouse gases / does not contribute to global warming / does not produce acid rain;			
	MP4. reliable electricity output / does not depend on weather;	allow idea that it can supply electricity / energy constantly ignore unqualified 'it is reliable'		
	any two disadvantages: MP5. waste products are radioactive / difficult to dispose of;			
	MP6. chance of nuclear accident;	e.g. nuclear meltdown, risk from tsunamis etc.		
	MP7. high security risk;			
	MP8. high construction / decommissioning cost;	ignore unqualified 'it is expensive'		

Total for question 6 = 4 marks