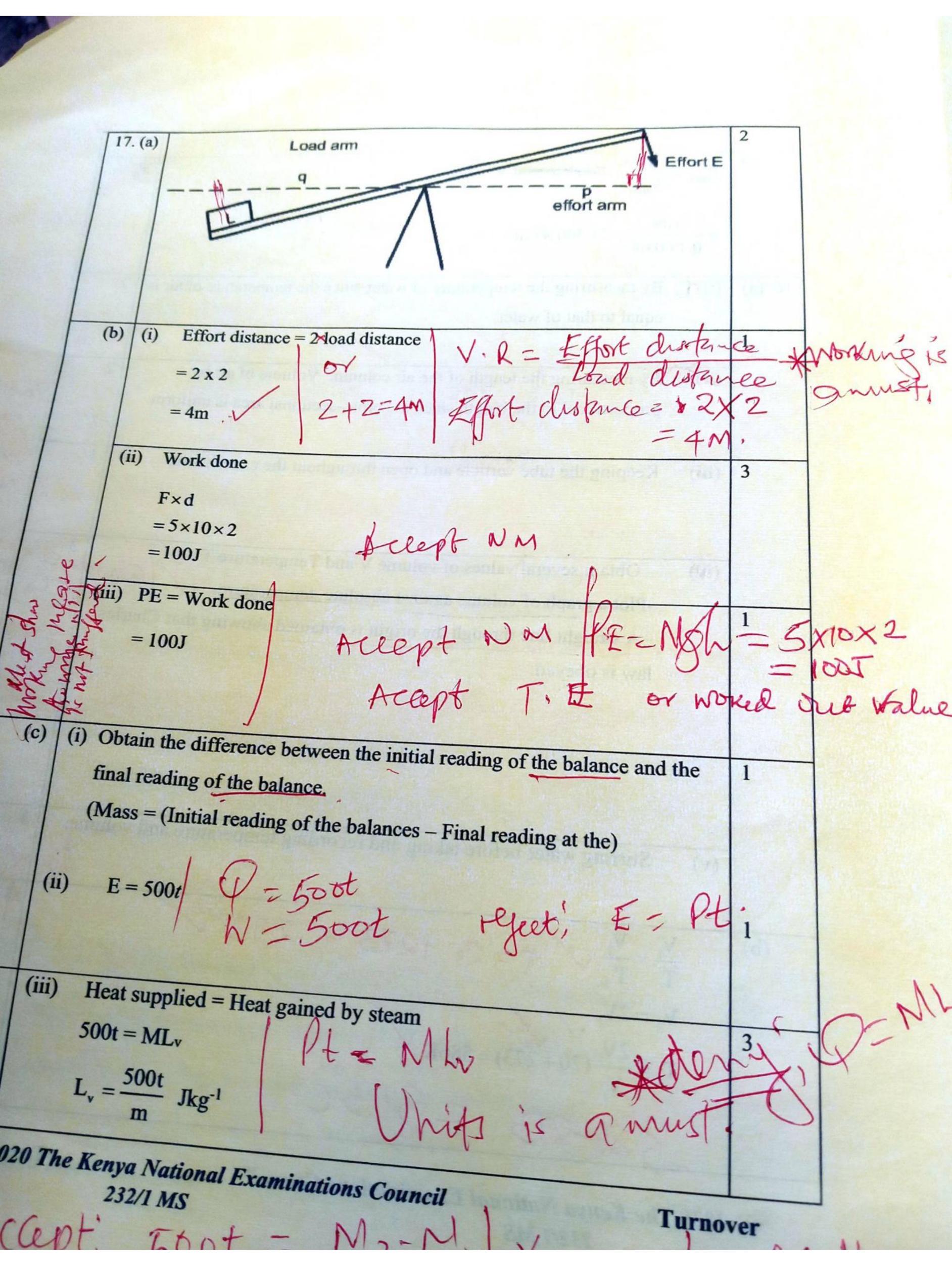


(c)	$P_{\text{max}} = \frac{F}{A_{\text{min}}} = (\frac{1}{A})$ 188	3
	$= \frac{188}{0.1 \times 0.08} = 23,500 \text{N/m}^2 27, 35 \text{Cm}^7$	
16. (a)	(i) By measuring the temperature of water since the temperature of air is equal to that of water.	2
	By measuring the length of the air column. Volume of air is proportional to the length since the cross-sectional area is uniform.	Verice
	(iii) Keeping the tube verticle and open throughout the experiment.	1 Vatrale Vatra
	(iv) - Obtain several values of volume V and Temperature T	landa cerebanier
	-Plot a graph of volume against absolute temperature. - A straight line through the origin is obtained showing that Charles	and reje
	law is obeyed.	
	to a parature and vol	ume. 1
	(v) Stirring water before taking and recording temperature and volu	danty, Spin
(b)	$\frac{V_1}{T} = \frac{V_2}{T_2} \sqrt{T} = 20 + 273 \text{ Y } 293$	
	$\frac{1}{T_1} = \frac{1}{T_2} $ $V_2 = 2V_1 $	2
	$T = \frac{2V_1}{(20 + 273)} = 586K$	1
	$\frac{1}{25} \frac{1}{86} - 213 = 313^{\circ}$	
	in a	Turnover



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Turnover