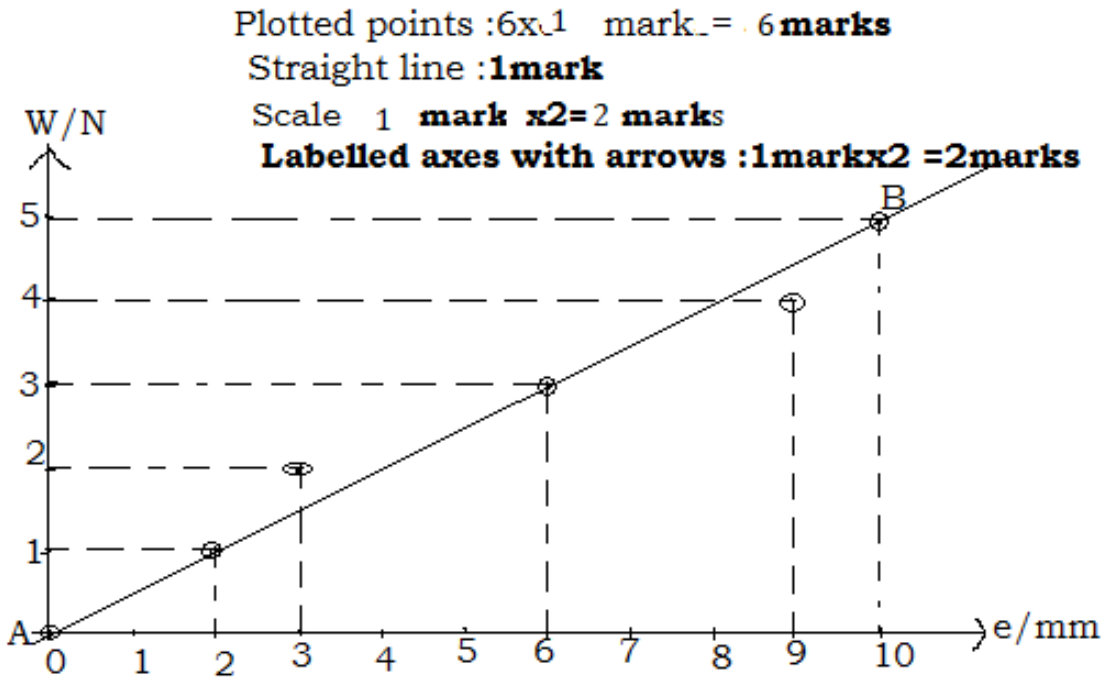
S5 MARKING SCHEME OF ALTERNATIVE TO PHYSICS PRACTICAL EXAM 2023-2024(20 MARKS)

(a) Table of results

W/N	L/mm	e/mm
0	30	0**(0.5mark)**
1	32	2**(0.5mark)**
2	33	3**(0.5mark)**
3	36	6**(0.5mark)**
4	39	9**(0.5mark)**
5	40	10**(0.5mark)**

(b) Graph of w against e



(c)The slope $K=\frac{5-0.5}{10-1}N/mm=0.5N/mm$ **(1mark)**

NB: To calculate the slope, it is imperative to use the values different from the table values. Interpretation of result

The spring stretches by 1 mm when a weight of 0.5 N is hung from it**(1mark)**

d) Hooke's law states that the force/load needed to extend or compress a spring by some distance x is proportional to that distance**(2marks)**

e) Spring balance**(1mark),**Newton meter**(1mark)**,trampolines, Balance wheel of the clock, spring of retractable pen,

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