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Name

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1. Diagram each of the three orders of levers.
2. Define: "power arm"; "weight arm".
3. Give the formula and work the problems: (a) Power arm 15 inches--Weight arm 33 inches--Power 120 pounds. Find the weight. (b) Power arm 4 feet--Weight arm $2\frac{1}{2}$ feet--Weight 200 pounds. Find power.
4. What is the importance of the pH or acid-base balance of the blood. Explain how proper base-balance is maintained in the body.
5. Define: second wind. Mention at least six changes which take place within the body immediately previous to or at the onset of second wind.
6. Define: "buffer" "Steady State".
7. Explain the term "Oxygen debt" and the significance of the phenomenon.
8. What is mean by: (a) "absolute power" and (b) "Optimum load".

$$A = \frac{P.A.}{w.a.} \times P_w.$$

2 joints