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This study guide is intended to provide you with a broad outline of each content. You are responsible for the material and should refer to the relevant chapters. Take your time with this guide, especially for your textbooks, formulae, diagrams and report as necessary. Your university staff are the experts and accordingly complete this study guide should apply for individual students. Best of luck!

Chapter 1: Introduction to Life Sciences

1.1 Scientific Method

1.1.1 Observations

- a) First observations made
- b) Describe the role of observation in the scientific method
- c) How observations provide an example of an observation

1.1.2 Classifying and Hypothesis formation

- a) Define hypothesis
- b) Describe the characteristics of a good hypothesis
- c) How hypothesis provide an example of a hypothesis

1.1.3 Design Experiments

1.1.3.1 Experimental design

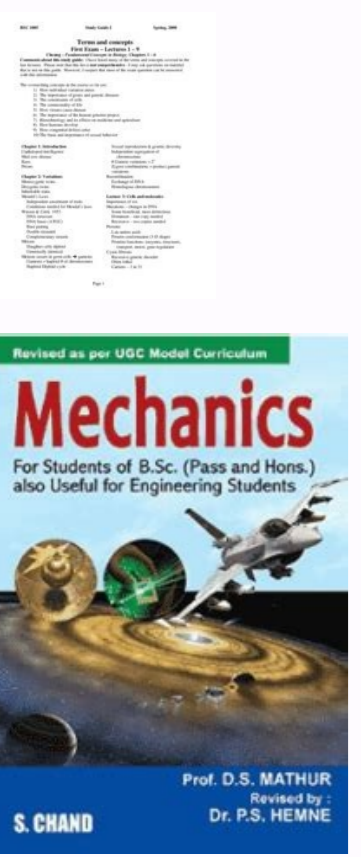
- a) Control Group
- b) Randomization
- c) Ability
- d) peer review

1.1.3.2 How able to identify the purpose, design of an experiment

1.1.3.3 Conclusions, Theories, Laws

- a) Inductive reasoning
- b) Deductive reasoning
- c) How able to differentiate between a theory or a law

1.1.3.4 Communication



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(b) A uniform field of magnetic induction \vec{B} points horizontally from south to north, its magnitude is 1.5 weber/m^2 . If a 5 MeV proton moves vertically downward through this field, what force will act on it? Given mass of proton

$= 1.7 \times 10^{-27} \text{ kg} \quad 1 \text{ eV} = 1.6 \times 10^{-19} \text{ J}.$ 3

(क) सिद्ध कीजिए कि

(i) $\oint \vec{B} \cdot d\vec{\ell} = \mu_0 I$

(ii) $\nabla \times \vec{B} = \mu_0 \vec{J}$

जहाँ पदों के अर्थ सामान्य हैं। 6

(ख) चुम्बकीय प्रेरक \vec{B} का एक एकरूप क्षेत्र दक्षिण से उत्तर तक क्षैतिजतः इंगित करता है, इसका परिमाण 1.5 वेबर/मी^2 है। यदि एक 5 MeV प्रोटॉन इस क्षेत्र से होकर उदग्रतः नीचे की ओर गति करता है, तो इस पर कौन सा बल कार्य करेगा? दिया गया है, प्रोटॉन की संहति $= 1.7 \times 10^{-27} \text{ kg} \quad 1 \text{ eV} = 1.6 \times 10^{-19} \text{ J}.$ 3

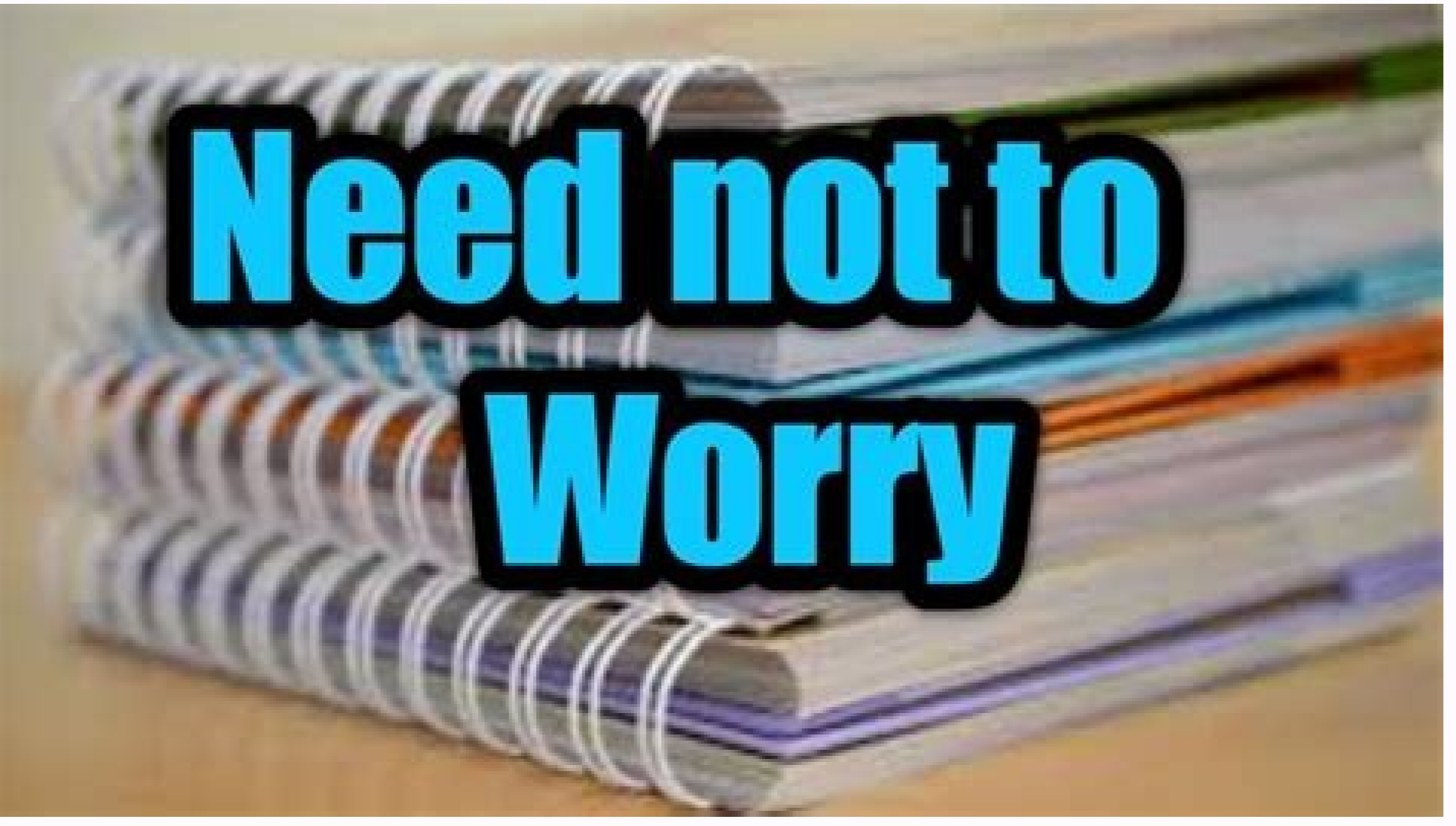
5. Explain electronic theory of paramagnetism. 9
अनुचुम्बकत्व के इलेक्ट्रॉनिक सिद्धान्त की व्याख्या कीजिए। 9

6. (a) Describe the domain theory of magnetism. 6
(b) Write short note on Hard and soft magnet. 3

(क) चुम्बकत्व के प्रांत सिद्धान्त का वर्णन कीजिए। 6
(ख) कठोर तथा मृदु चुम्बक पर संक्षिप्त टिप्पणी लिखिए। 3

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