

# Study Guide 16

1.1  $N_0$  = ground state /  $N_h$  = # of mol at  $0.76 k_B T$  /  $N_c$  = # of mol at  $ck_B T$

$$N_h = N_0 e^{-0.76} = 2000$$

$$N_c = N_0 e^{-c} = 5500$$

$$\frac{2000}{5500} = \frac{e^{-0.76}}{e^{-c}}$$

$$e^c = \frac{5500}{2000} e^{-0.76} = 0.76$$

$$-\ln c = -\ln 0.76$$

$$c = 0.27$$

2.1.1  $\rho = 1.3 \times 10^3 \text{ kg/m}^3$  /  $r = 0.22 \times 10^{-2} \text{ m}$

$$\text{mass} = \text{vol} \times \rho = \frac{4}{3} \pi r^3 \times \rho$$

$$\text{mass} = \frac{4}{3} \pi (0.22 \times 10^{-2} \text{ m})^3 \times 1.3 \times 10^3 \text{ kg/m}^3$$

$$= 5.8 \times 10^{-7}$$

2.1.2 Apparent weight = Weight - Weight of displaced fluid (Archimedes's Principle)

$$\text{mass of displaced water} = \frac{4}{3} \pi r^3 \times \rho_{\text{water}}$$

$$= \frac{4}{3} \pi (0.22 \times 10^{-2})^3 \times 1000$$

$$\therefore = 4.46 \times 10^{-7} \text{ kg}$$

$$\text{apparent weight} = (5.8 \times 10^{-7}) - 4.46 \times 10^{-7}$$

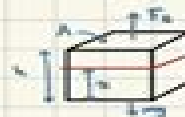
$$= 1.34 \times 10^{-7} \text{ kg} = 1.34 \times 10^{-6} \text{ N}$$

2.2  $\rho_{\text{ice}} = 917 \text{ kg/m}^3$ ,  $\rho_{\text{water}} = 925 \text{ kg/m}^3$

floats  $\Rightarrow F_b = mg \Rightarrow \rho_{\text{water}} g (\text{vol submerged}) = \rho_{\text{ice}} g (\text{vol})$

$$\rho_{\text{ice}} h_{\text{ice}} = \rho_{\text{water}} h_{\text{water}}$$

$$f = x/h = \rho_{\text{ice}} / \rho_{\text{water}} = 0.991$$



3.1 particles in Boltzmann-type exerts obey Barometric eq'n

$$\frac{N}{N_0} = e^{-mgh/kT} \Rightarrow \frac{N}{N_0} = e^{-\frac{\rho V g h}{\rho_0 V_0}} \quad \begin{matrix} \text{fully immersed} \\ \text{constant} \end{matrix}$$

$$\frac{N_0}{N_1} = \frac{80}{120} = e^{-g(14)}$$

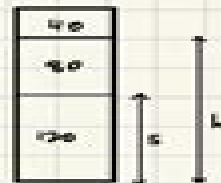
$$g = -\ln\left(\frac{80}{120}\right) \div 5$$

$$= 0.008 \text{ cm}^{-1}$$

$$\frac{N}{N_0} = \frac{40}{120} = e^{-0.008 h}$$

$$\ln\left(\frac{40}{120}\right) = -0.008 h$$

$$h = 13.6 \text{ cm}$$



# Physics 16 Study Guide Answers

**LL Leslie**



## Physics 16 Study Guide Answers:

**UGC-NET/JRF/SET Teaching and Research Aptitude (General Paper - I)** Vikas Experts, Test Prep for UGC NET JRF SET Teaching and Research Aptitude , MEGA Study Guide for NTSE 2021 (SAT & MAT) Class 10 Stage 1 & 2 - 12th Edition Disha Experts,2020-05-13 This new 12th edition of MEGA Study Guide for NTSE 2021 Class 10 is empowered with the inclusion of 2020 Stage I questions of the different states The book is based on the syllabus of Class 8 9 10 as prescribed by NCERT There are 27 chapters in the Mental Ability Section MAT The Scholastic Aptitude section SAT has been divided into 8 parts Physics Chemistry Biology Mathematics History Geography Civics and Economics The book provides past questions of last 10 years of NTSE Stage 1 2012 2020 Stage 2 2012 2019 JSTSE papers divided chapter wise The book provides sufficient pointwise theory solved examples followed by Fully Solved exercises in 2 levels State UT level National level Maps Diagrams and Tables to stimulate the thinking ability of the student The book covers new variety of questions Passage Based Assertion Reason Matching Definition based Statement based Feature Based Diagram Based and Integer Answer Questions MEGA Study Guide for NTSE (SAT, MAT & LCT) Class 10 Stage 1 & 2 - 11th Edition Disha Experts,2019-03-12 This new 11th edition of MEGA Study Guide for NTSE Class 10 is empowered with the inclusion of 2018 Stage I questions of the different states The book is based on the syllabus of Class 8 9 10 as prescribed by NCERT The book also comprises of Past questions of NTSE Stage 1 2 from the years 2012 2018 There are now 28 chapters in the Mental Ability Section MAT The Scholastic Aptitude section SAT has been divided into 9 parts Physics Chemistry Biology Mathematics English History Geography Civics and Economics The book provides past questions of last 10 years of NTSE Stage 1 2 JSTSE papers divided chapter wise The book provides sufficient pointwise theory solved examples followed by Fully Solved exercises in 2 levels State UT level National level Maps Diagrams and Tables to stimulate the thinking ability of the student The book covers new variety of questions Passage Based Assertion Reason Matching Definition based Statement based Feature Based Diagram Based and Integer Answer Questions **Study Guide BCA 2021** Arihant Experts,2020-10-16 *An Introduction to Physics* Harvard Project Physics,1968 **MAH-MBA-CET Papers PDF and Study Material eBook By Chandresh Agrawal** Chandresh Agrawal,Nandini Books,2024-12-05 SGN The MAH MBA CET Papers PDF and Study Material eBook Covers MBA CET Papers and study Material On All Sections Of The Exam **ECCWS 2017 16th European Conference on Cyber Warfare and Security** Academic Conferences and Publishing Limited,2017 *An Outline Study of United States History* Harlow Godard,1895 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1978 **Library of Congress Catalog: Motion Pictures and Filmstrips** Library of Congress,1968 **SSC Constable Exam Guide 2020** Arihant Experts,2020-01-11 *The Journal of Education for Upper Canada* ,1854 Research in Education ,1973 Resources in Education ,1987 How to Qualify for United States Air Force Academy Arco Publishing Company,1955 The Publishers' Trade List Annual ,1882 **OSSC CGL PDF-Odisha Combined**

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