

- (vii) 'g' is the acceleration due to gravity on the surface of the Earth and 'R' is the radius of the Earth. Show that acceleration due to gravity at height 'h' above the surface of the Earth is  $g_h = g \left( \frac{R}{R+h} \right)^2$ .

- (viii) In Melde's experiment, the number of loops on a string changes from 7 to 5 by the addition of 0.015 Kgw. Find the initial tension applied to the string.

**Q. 4. Select and write the most appropriate answer from the given alternatives for each sub-question :**

[7]

- (i) A planet is revolving around a star in a circular orbit of radius R with a period T. If the gravitational force between the planet and the star is proportional to  $R^{-\frac{3}{2}}$ , then \_\_\_\_\_.
- (a)  $T^2 \propto R^{\frac{5}{2}}$  (b)  $T^2 \propto R^{-\frac{7}{2}}$  (c)  $T^2 \propto R^{\frac{3}{2}}$  (d)  $T^2 \propto R^4$
- (ii) If 'L' is the angular momentum and 'I' is the moment of inertia of a rotating body, then  $\frac{L^2}{2I}$  represents its \_\_\_\_\_.
- (a) rotational P. E. (b) total energy (c) rotational K. E. (d) translational K.E.
- (iii) A particle executing linear S.H.M. has velocities  $v_1$  and  $v_2$  at distances  $x_1$  and  $x_2$  respectively from the mean position. The angular velocity of the particle is \_\_\_\_\_.
- (a)  $\sqrt{\frac{x_1^2 - x_2^2}{v_2^2 - v_1^2}}$  (b)  $\sqrt{\frac{v_2^2 - v_1^2}{x_1^2 - x_2^2}}$  (c)  $\sqrt{\frac{x_1^2 + x_2^2}{v_2^2 + v_1^2}}$  (d)  $\sqrt{\frac{v_2^2 + v_1^2}{x_1^2 + x_2^2}}$
- (iv) A metal rod having coefficient of linear expansion ( $\alpha$ ) and Young's modulus (Y) is heated to raise the temperature by  $\Delta\theta$ . The stress exerted by the rod is \_\_\_\_\_.
- (a)  $\frac{Y\alpha}{\Delta\theta}$  (b)  $\frac{Y\Delta\theta}{\alpha}$  (c)  $Y\alpha\Delta\theta$  (d)  $\frac{\alpha\Delta\theta}{Y}$
- (v) A big drop of radius R is formed from 1000 droplets of water. The radius of a droplet will be \_\_\_\_\_.
- (a) 10 R (b)  $\frac{R}{10}$  (c)  $\frac{R}{100}$  (d)  $\frac{R}{1000}$
- (vi) Apparent frequency of the sound heard by a listener is less than the actual frequency of sound emitted by source. In this case \_\_\_\_\_.
- (a) listener moves towards source.  
(b) source moves towards listener.  
(c) listener moves away from the source.  
(d) source and listener move towards each other.
- (vii) The substance which allows heat radiations to pass through is \_\_\_\_\_.
- (a) iron (b) water vapour (c) wood (d) dry air

# Hsc Half Yearly Past Papers And Physics

**Lyn Baker**



## **Hsc Half Yearly Past Papers And Physics:**

H.S.C Sample Papers Science Stream for 2022 Exam (Maharashtra Board) : New Pattern Questions - Hindi, Eng. Marathi, Maths & Stats, Physics, Chem, Bio Oswal - Gurukul,2021-08-25 H S C SAMPLE PAPERS Maharashtra Board for 2022 Exam Science Stream Handbook of 8 Subjects Activity Sheet Question Papers on New Pattern Year 11 Preliminary Mathematics Lyn Baker,2003 This book has been specifically designed to help Year 11 students who roughly revise all topics in the Preliminary Mathematics course and prep are for their class tests half yearly and yearly exams Comprehensive revision in Year 11 will enable students to confidently progress into the HSC Mathematics course in Year 12 The book includes topics covering the complete Preliminary Year 11 Mathematics course almost 200 pages of practice exercises with topic tests for all chapters three sample examination papers answers to all questions **Excel HSC Physics** Neville G. Warren,2003 Steps to Career Siji Thomas,2017-06-05 For the longest time parents and children both knew and believed that Medicine Engineering Management and Law were the only true careers which could provide job security and steady paycheques However youngsters today couldn't have been more open to trying out offbeat careers They are bold patient resilient and aware of the fact that a career that is in line with their interests has a higher chance of being satisfying An equal or probably more parents are sceptical about these unconventional careers and would rather have their children go in for tried and tested jobs With Steps to Career the author has attempted to dilute the dilemma of such children and their parents providing them a wealth of information on the available conventional and unconventional career options to help the children decide the right career for them and the process Selective Admissions Under Pressure David George Beswick,1984 Problems of access selection and transition to higher education are widely recognised in Australia today as priority areas for policy review This is the report of an internal evaluative study funded by the Commonwealth Tertiary Education Commission with a view to its relevance to other institutions The major part of the report consists of findings from field observations of central administration selection committees and faculty office procedures as selection decisions were actually made over two years Issues and problems are identified and discussed in detail in relation to general policy and administrative considerations A brief review and technical appendix includes information of a statistical nature on the prediction of success in university courses Strategies for change are discussed in relation to a general review of admissions policy including the introduction of a special admissions scheme and the possible use of achievement tests University policy documents are included in the appendix Although some of the problems at the University of Melbourne relate to the intense competition for entry to this particular university many of the issues addressed and solutions proposed deal with common problems and will suggest policy options and procedures of interest to other universities and colleges and to individuals concerned with questions of educational quality and social equity New Zealand Patrick J. Kennedy,1981 Resources in Education ,1982 Journals and Printed Papers of the Parliament of Tasmania Tasmania. Parliament,1884 Wings to Fly

Deepak Sharma,2022-07-19 Wings to Fly beautifully illustrates that instead of constantly climbing the ladders of success sometimes we need to descend into the valley of truth and reality Especially for those facing the acute heat of poverty insecurity suffering disabilities and inabilities There is always an opportunity around us to sow the right seeds for the less beneficial people and weed out the superficial false and futile possessions All the compromises and sacrifices can be easily forgotten like a mother who bears all the pain while giving birth and raising her children Deepak found the true meaning and purpose of his life while serving the underprivileged children at Udayan Care He devoted his heart mind soul wealth and body to them as a full time volunteer and a guardian The book convinces one that each child is a lotus waiting to blossom They just need someone s support guidance care handholding and above all quality time The book intends to inspire one to make significant contributions to society nature and the universe in multiple ways Anyone can extend a hand of hope become eyes for the blind a voice for the mute clutches for the crippled destiny for the destitute and a lamp Deepak of light and hope for someone else True exuberance and contentment are found when we rise above ourselves and learn to live for others

**Bulletin of the Atomic Scientists** ,1979-03 *The ETS Test Collection Catalog* Educational Testing Service. Test Collection,1993 The major source of information on the availability of standardized tests Wilson Library BulletinCovers commercially available standardized tests and hard to locate research instruments **Commonwealth Universities Yearbook** T. Craig,Hugh W. Springer,1979 **English Mechanic and Mirror of Science** ,1873 Memoirs and Proceedings Ofthe Manchester Literary & Philosophical Society. (Manchester Memoirs) Manchester Literary and Philosophical Society,1966 **Memoirs and Proceedings of the Manchester Literary & Philosophical Society** Manchester Literary and Philosophical Society,1963 *Europhysics Conference on Control Systems for Experimental Physics, Villars-sur-Ollon, Switzerland, 28 September-2 October 1987* Berend Kuiper,1990 **Memoirs of the Manchester Literary and Philosophical Society** Manchester Literary and Philosophical Society,1964 **The Publishers' Circular and Booksellers' Record** ,1907 **"The" Athenaeum** ,1896 **Complete Book of Medical Schools, 2004** Malaika Stoll,Princeton Review (Firm),2003-09-30 Nobody knows medical schools better than The Princeton Review EVERYTHING YOU NEED TO KNOW TO MAKE A CRUCIAL DECISION The Complete Book of Medical Schools gives you the facts about admission requirements and curriculum at the 125 U S and 16 Canadian accredited allopathic schools and 19 accredited osteopathic schools It also provides answers to all the practical questions you should ask about every medical school to which you consider applying How much clinical exposure can you expect during pre clinical years What is the grading promotion policy Are there special programs for members of minority groups How much financial aid is available You ll also get the basics like snail mail and email addresses telephone numbers admissions deadlines tuition figures and more PLUS A SPECIAL SECTION FOR NONTRADITIONAL STUDENTS If you re an applicant who is more than a couple years out of college you probably have plenty of questions about getting into medical school Inside you ll find The financial and personal

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