

GRADE 10 PHYSICAL SCIENCES MARCH TEST

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.5) on your folio paper. Example 1.6. D.

- 1.1 A positively charged object has:
 - A. an attraction to metal objects.
 - B. a repulsion to all other metals.
 - C. an attraction to all other metals.
 - D. a repulsion to all other metals.
- 1.2 Which one of the following types of electromagnetic waves has the **LONGEST** wavelength?
 - A. Radio waves
 - B. X-rays
 - C. Microwaves
 - D. Visible light
- 1.3 In which **ONE** of the following do sound waves travel the **FASTEST**?
 - A. Gases
 - B. Liquids
 - C. Solids
 - D. Vacuum
- 1.4 The SI unit for charge is the ...
 - A. Coulomb
 - B. Volt
 - C. Ohm
 - D. Ampere
- 1.5 The relationship between voltage and work done is:
 - A. Current
 - B. Directly proportional
 - C. Inversely proportional
 - D. Indirectly proportional

[10]

QUESTION 2

Below is a representation of two waves consisting of continuous pulses. Study it carefully and answer the questions that follow.



- 2.1 Define a **pulse**. (2)
- 2.2 Identify the type of waves illustrated above as **TRANSVERSE** or **LONGITUDINAL**. (2)
- 2.3 Which one of the two waves, P or Q, has the greatest amplitude? (1)
- 2.4 For Wave Q:
 - 2.4.1 What is the magnitude of its wavelength in metres? (1)
 - 2.4.2 Write down the frequency of the wave. (1)
 - 2.4.3 Calculate the speed of the wave. (3)
- 2.5 If the waves were sent towards each other and allowed to collide,
 - 2.5.1 Write down what would happen. (2)
 - 2.5.2 Describe what would happen. (2)

[10]

QUESTION 3

- 3.1 The diagram below shows different points on a longitudinal wave.



- 3.1.1 Point to which A, B and C?

(2)

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Disha Experts



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Science Guide for NTSE Class 10 Stage 1 & 2 Disha Experts, 2019-04-01 The eBook Science Guide for NTSE Class 10 Stage 1 2 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 The book has been divided into 3 sections comprising of 25 chapters Physics 8 Chemistry 9 Biology 8 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

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Thrive Ben Wright, Emily Clements, Martha Boyne, 2018-05-16

Martha Emily and Ben are thriving teachers In Thrive they share their personal experiences and demonstrate how you too can thrive during the tricky training year the daunting NQT year and the crucial RQT year Using their collective insights and plenty of evidence informed strategies and advice they detail how you can get to grips with the classroom basics from behaviour management and lesson planning to differentiation and providing for SEND and effectively continue your professional development This book is not just a survival manual to help teachers get through their first three years in teaching Nor is it an academic text that has been written by authors who have only a distant memory of what it takes to stand in front of a class of teenagers for the first time Thrive is something very different It gives both the aspiring and the newly qualified the support and guidance to become a thriving teacher and has been co authored by three recently qualified teachers who in this book invest their passion and practical knowledge to inspire and inform others who want to pursue enjoyable and rewarding careers in teaching Thrive is divided into three parts specifically detailing what can be expected in the training year NQT year and RQT year respectively with the authors commentary threaded throughout to demonstrate how the ideas discussed can be successfully put into practice Their accounts are also complemented by expert advice from two people who are at the very top of their profession Lianne Allison and Dr Simon Thompson who provide wider perspectives drawn from a wealth of teaching experience Forty of the book s forty six chapters begin with a checklist outlining what a developing teacher is expected to do and each chapter ends with a to do list that can be used as a quick reference point to structure the strategies implemented These to do lists are also followed by lists of suggested further reading so that readers can delve deeper into topics and fields of research that they find particularly interesting or relevant Furthermore the book offers helpful counsel on choosing the best training route as well as an in depth analysis of the change in priorities for busy teachers as they progress encouraging constant reflection outlining potential pathways and emphasising the importance of evidence based practice and how new teachers can and should incorporate this into their teaching Rooted in practical strategies and innovative ideas Thrive is the essential guide for trainee secondary school teachers and teacher trainers

Journal of the Physical Society of Japan ,2015 **Australian Education Index** ,1980 Physics Briefs ,1994 *Yearbook of International Organizations 2013-2014 (Volumes 1a-1b)* Union Of International Associations,Union of International Associations,2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events **The Indian National Bibliography** B. S. Kesavan,2016-07 How to Be Happy at Work Annie McKee,2018-08-21 Life s too short to be unhappy at work I m working harder than I ever have and I don t know if it s worth it anymore If you re a manager or leader these words have probably run through your mind So many of us are feeling fed up burned out and unhappy at work the constant pressure and stress the unending changes the politics people feel as though they can t give much more and performance is suffering But it s work after all right Should we even expect to be fulfilled and happy at work Yes we should says Annie McKee coauthor of the bestselling Primal Leadership In her new

transformative book she makes the most compelling case yet that happiness and the full engagement that comes with it is more important than ever in today's workplace and she sheds new light on the powerful relationship of happiness to individual team and organizational success Based on extensive research and decades of experience with leaders this book reveals that people must have three essential elements in order to be happy at work A sense of purpose and the chance to contribute to something bigger than themselves A vision that is powerful and personal creating a real sense of hope Resonant friendly relationships With vivid and moving real life stories the book shows how leaders can use these powerful pillars to create and sustain happiness even when they're under pressure By emphasizing purpose hope and friendships they can also ensure a healthy positive climate for their teams and throughout the organization How to Be Happy at Work deepens our understanding of what it means to be truly fulfilled and effective at work and provides clear practical advice and instruction for how to get there no matter what job you have

The Oracle Encyclopaedia ,1895 **The College Handbook** College Entrance Examination Board,1985 Presents information on 4 year colleges and universities and 2 year community colleges and technical schools U S NEWS ULTIMATE COLLEGE DIRECTORY 2004 MCGRATH ANNE (EDITOR),2003 **English Mechanic and Mirror of Science and Art** ,1894 *Science Abstracts* ,1965 **The Mining Journal, Railway and Commercial Gazette** ,1891 *The Engineer* ,1906 *Who's who Among Students in American Universities and Colleges* Henry Pettus Randall,1977 **Journal of Developmental Education** ,2015

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