

Sample Paper - 1

ICSE Class - X

PHYSICS

Time : 2 hrs

F.M. 80

*Attempt all the questions from Section I and any four questions from Section II.
The intended marks for questions or parts of questions are given in brackets [].*

SECTION I (40 Marks)

Attempt all questions from this Section.

Question 1

[2X5]

- a) How does the average kinetic energy of molecules of a substance change during its change in phase?
- b) Draw a V-I graph for (i) Aluminium wire (ii) Junction diode
- c) Why is radioactivity considered to be a nuclear phenomenon?
- d) In refraction through a thick glass plate, multiple images are formed. Which image is the brightest and why?
- e) The position of centre of gravity of a body remains unchanged when the body is deformed. State whether the statement is true or false. Also give reason for your answer.

Question 2

[2X5]

- a) Explain why a Jack screw used to lift a heavy load has a long handle?
- b) Define couple and give the numerical expression of moment of couple.
- c) Draw a ray diagram showing formation of image by a concave lens of focal length 10 cm when an object is placed 15 cm from the optical centre.
- d) Which electromagnetic waves help in (i) the study of structure of crystals (ii) used in radiotherapy?
- e) Name the characteristics of musical sound that depend on frequency. Name the scale used for expressing loudness of sound.

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Oswaal ICSE 10 Sample Question Papers Class 10 Physics, Chemistry, Maths, Biology, English Paper-1 and 2 (Set of 6 Books) For Board Exam 2024 (Based On The Latest CISCE/ICSE Specimen Paper) Oswaal Editorial Board, 2023-11-10 Description of the Product Fresh Relevant with 2024 ICSE ISC Specimen Paper Fully Solved Score Boosting Insights with 500 Questions 1000 Concepts Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready Practice with 10 Highly Probable SQPs Includes 2023 Board Exam Paper Fully Solved 5 exclusive Sample Question Papers for Oswaal 360 GCSE Tim Horton, 1986 **Interdisciplinary Aspects Of Physics Education** Helmut Kuehnelt, 1990-04-01 This meeting brought together an international group of research workers in physics education and teachers at the high school and university level This volume contains the presentations and discussions on successful implementations of demonstrating to the students the importance of physics through applications in medicine biology technology etc **Irish Education** John Coolahan, 1981 *Report of the Commissioner of Education [with Accompanying Papers]*. United States. Bureau of Education, 1894 **UPSC Power Bank: 1000+ MCQs for UPSC and State PSCs and exams Modern History (For Latest Edition)** Oswaal Editorial Board, 2024-10-12 100% Updated with the Latest Pattern of Questions asked in UPSC Prelims Extensive Practice with 1000 MCQs based on UPSC State PSCs latest pattern Flash Facts with Crisp revision notes with smart mind maps Concept Clarity with Detailed Elaborated Solutions 100% Exam Readiness with Study Approach Video Trend Analysis Provided by UPSC Experts **UPSC Power Bank: 1000+ MCQs for UPSC and State PSCs and exams Science & Technology (For Latest Edition)** Oswaal Editorial Board, 2024-10-12 100% Updated with the Latest Pattern of Questions asked in UPSC Prelims Extensive Practice with 1000 MCQs based on UPSC State PSCs latest pattern Flash Facts with Crisp revision notes with smart mind maps Concept Clarity with Detailed Elaborated Solutions 100% Exam Readiness with Study Approach Video Trend Analysis Provided by UPSC Experts Pulp and Paper Magazine of Canada, 1920 **Oswaal CDS (Combined Defence Services) 14 Solved Papers Year-wise 2018-2024 (II) | General Knowledge | For 2025 Exam** Oswaal Editorial Board, 2024-09-26 Union Public Service Commission UPSC every year conducts a CDS exam twice a year for candidates who wish to make their career in the defence forces Army Navy and Air Force The Combined Defence Services Examination is conducted for admission to the Indian Military Academy IMA Indian Naval Academy INA Air Force Academy AFA and Officers Training Academy OTA The CDS selection process comprises two stages written exams and SSB interviews The final selection of candidates is done based on the performance in both stages After completing training at IMA INA AFA and OTA candidates are selected for the post of Lieutenant In 2024 Approx 4.5 Lacs students applied for the CDS examination the opportunity you get from the Indian Armed Forces is just limitless which helps in enhancing your personality traits For a youngster who is aspiring to get a job full of challenges and excitement then there is no better job than the defence This book aims to make aspirants exam ready boost their confidence and help them

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analyse their teaching practice and the learning experiences of their students through the lens of the Threshold Concepts Framework In any discipline there are certain concepts the jewels in the curriculum whose acquisition is akin to passing through a portal Learners enter new conceptual and often affective territory Previously inaccessible ways of thinking or practising come into view without which they cannot progress and which offer a transformed internal view of subject landscape or even world view These conceptual gateways are integrative exposing the previously hidden interrelatedness of ideas and are irreversible However they frequently present troublesome knowledge and are often points at which students become stuck Difficulty in understanding may leave the learner in a liminal state of transition a betwixt and between space of knowing and not knowing where understanding can approximate to a form of mimicry Learners navigating such spaces report a sense of uncertainty ambiguity paradox anxiety even chaos The liminal space may equally be one of awe and wonderment Thresholds research identifies these spaces as key transformational points crucial to the learner's development but where they can oscillate and remain for considerable periods These spaces require not only conceptual but ontological and discursive shifts This volume the fourth in a tetralogy on Threshold Concepts discusses student experiences and the curriculum interventions of their teachers in a range of disciplines and professional practices including medicine law engineering architecture and military education Cover image Detail from Eve offering the apple to Adam in the Garden of Eden and the serpent c 1520 25 Lucas Cranach the Elder 1472 1553 Bridgeman Images All rights reserved **Joint Volumes of Papers Presented to the Legislative Council and Legislative Assembly** New South Wales. Parliament, 1906 Includes various departmental reports and reports of commissions Cf Gregory Serial publications of foreign governments 1815 1931 *2024-25 RRB Pharmacist Solved Papers and Practice Book* YCT Expert Team , 2024 25 RRB Pharmacist Solved Papers and Practice Book 208 395 E This book contains 18 sets solved papers and practice book and covers paper I to paper V *Report of the Commissioner of Education Made to the Secretary of the Interior for the Year ... with Accompanying Papers* United States. Bureau of Education, 1894

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