

- (12) Latent heat of vaporization of water is:
 (a) $3.36 \times 10^5 \text{ J/kg}$ (b) $2.26 \times 10^5 \text{ J/kg}$
 (c) $2.26 \times 10^6 \text{ J/kg}$ (d) $2.26 \times 10^{-6} \text{ J/kg}$
- (13) Right hand rule is introduced by:
 (a) Maxwell (b) Faraday (c) Oersted (d) Ampere
- (14) Rainbow appears due to:
 (a) Absorption of light (b) Dispersion of light
 (c) Refraction of light (d) Reflection of light
- (15) The mass of our galaxy is:
 (a) $2 \times 10^{43} \text{ kg}$ (b) $2 \times 10^{50} \text{ kg}$
 (c) $6 \times 10^{24} \text{ kg}$ (d) $7 \times 10^{22} \text{ kg}$
- (16) Which of the following is used for the study of thyroid glands?
 (a) I-132 (b) P-32 (c) Na-24 (d) CD-60
- (17) Rechargeable cell is called _____ cell.
 (a) Daniell (b) Secondary (c) Primary (d) voltaic

PHYSICS

2014

Time: 2 ½ Hours

Max. Marks: 68

SECTION "B" (SHORT-ANSWER QUESTIONS)

Note: Answer 14 questions from this section.

No answer should exceed 3 to 5 sentences:(42

- (2) Write down S.I.U. for the following:
 (i) Viscosity (ii) Stress (iii) Torque
 (iv) Temperature (v) Momentum (vi) Input
- (3) How much energy will be released when 20 gm mass is completely transferred to energy by Einstein's Equation?
- (4) Prove that: $V_f = V_i + at$ OR $V = f\lambda$
- (5) Write down three differences between Transverse and longitudinal waves.
- (6) A gun of mass 10 kg fires a bullet of mass 0.05 kg with a speed of 200 m/s. Calculate velocity of recoil of the gun.
- (7) Derive Mechanical advantages Formula for Inclined Plane.
- (8) A 5m long beam pivoted into a wall, a force of 100 N is applied vertically at the Far end of beam. Find the torque produced.
- (9) Define: (i) Power (ii) Spectrum (iii) Newton
- (10) How can we convert a Galvanometer into Ammeter and Voltmeter? (Show only by labeled diagrams).
- (11) Find the amount of heat required to convert 10kg ice 0°C into water without changing the temperature while latent heat of fusion of ice 336000 J/kg .

Matric 2014 Physics Paper1 Exam

Sudhakar M. Rao



Matric 2014 Physics Paper1 Exam:

Foundation Engineering for Expansive Soils John D. Nelson, Kuo Chieh Chao, Daniel D. Overton, Erik J. Nelson, 2015-02-10
Your guide to the design and construction of foundations on expansive soils *Foundation Engineering for Expansive Soils* fills a significant gap in the current literature by presenting coverage of the design and construction of foundations for expansive soils Written by an expert author team with nearly 70 years of combined industry experience this important new work is the only modern guide to the subject describing proven methods for identifying and analyzing expansive soils and developing foundation designs appropriate for specific locations Expansive soils are found worldwide and are the leading cause of damage to structural roads The primary problem that arises with regard to expansive soils is that deformations are significantly greater than in non expansive soils and the size and direction of the deformations are difficult to predict Now *Foundation Engineering for Expansive Soils* gives engineers and contractors coverage of this subject from a design perspective rather than a theoretical one Plus they ll have access to case studies covering the design and construction of foundations on expansive salts from both commercial and residential projects Provides a succinct introduction to the basics of expansive soils and their threats Includes information on both shallow and deep foundation design Profiles soil remediation techniques backed up with numerous case studies Covers the most commonly used laboratory tests and site investigation techniques used for establishing the physical properties of expansive soils If you re a practicing civil engineer geotechnical engineer or contractor geologist structural engineer or an upper level undergraduate or graduate student of one of these disciplines *Foundation Engineering for Expansive Soils* is a must have addition to your library of resources

Stabilization of Earthen Building Materials by Select Native Binders Sudhakar M. Rao, 2023-12-23 Increased environmental and energy concerns have renewed global interest in raw earth as a building material Low energy requirements low cost high availability at construction sites and favorable engineering properties make EBMs an attractive alternative to conventional cement based construction materials Though the use of native binders to improve soil properties has garnered attention in recent literature the available knowledge has not been covered in a single document This book highlights the key soil properties that determine the mechanical performance of earthen building materials importance of unsaturated soil mechanics in the engineering behavior of earthen building materials the different types of stabilizers used to improve the engineering performance of earthen building materials including the use of select native binders the characteristics of compressed earth blocks stabilized with cement and cement wood ash additives and the improvement in the engineering properties of adobes stabilized with plant fibers and cow dung

Physics J. M. Lucas, 2001

Physics J. M. Lucas, 2001

S1 to National 4 Physics Practice Question Book Anna Lee (Writer of S1 to National 4 physics practice question book), James Spence (Writer of S1 to National 4 physics practice question book), 2018 Syllabus CfE and SQA Level S1 N4 Subject Physics First Teaching 2014 First Exam 2015 Masses of practice questions for every topic on the CfE and SQA

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