

PHYSICS

2014

Time: 30 minutes

Max. Marks: 17

SECTION "A" (COMPULSORY)(M.C.Q.)

1. Choose the correct answer for each from the given options: (17)

- (1) Which one of the following has maximum value of refractive index?
(a) Ruby (b) Crown glass (c) Quartz (d) Diamond
- (2) Production of beats is due to the ----- of sound waves:
(a) Interference (b) Reflection (c) Diffraction (d) Refraction
- (3) The branch of physics concerned with highly ionized atoms is called ----- Physics:
(a) Atomic (b) Nuclear (c) Plasma (d) Nuclear State
- (4) The Unit of co-efficient of friction (μ) is:
(a) Newton (b) Joule (c) Newton metre (d) None of these
- (5) The waves produced by a vibrating body in air are:
(a) Longitudinal waves (b) Transverse waves
(c) Electronegative waves (d) Magnetic waves
- (6) It always gives virtual image:
(a) Concave lens (b) Convex Mirror
(c) Plane Mirror (d) All of them
- (7) The viscosity of Ethanol is:
(a) 0.019 (b) 0.1 (c) 1.000 (d) 0.801
- (8) If frequency of a pendulum is 10 Hz, then time period will be:
(a) 1 sec. (b) 10 sec. (c) 0.1 sec. (d) 0.01 sec.
- (9) Water has maximum density at:
(a) 0°C (b) -4°C (c) 4°C (d) 100°C
- (10) 1 Mega metre = ----- metres.
(a) 10^{12} (b) 10^9 (c) 10^6 (d) 10^{15}
- (11) If $P = 15$ cm, $q = 30$ cm, the magnification is -----:
(a) 2 (b) $\frac{1}{2}$ (c) 45 (d) 15

Matric Physics Paper Memo For 2014

**John D. Nelson, Kuo Chieh Chao, Daniel
D. Overton, Erik J. Nelson**



Matric Physics Paper Memo For 2014:

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

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