

Time: 30 minutes

Max. Marks: 17

## SECTION 'A' MULTIPLE CHOICE QUESTION

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

- (i) The refractive index of Ruby is:  
(A) 1.51 (B) 1.52 (C) 1.53 (D) 1.54
- (ii) The least distance of vision for a normal Eye is:  
(A) 20 cm (B) 25 cm (C) 30 cm (D) 35 cm
- (iii) The speed of Light in water is:  
(A)  $2.25 \times 10^8$  m/s (B)  $2.26 \times 10^8$  m/s  
(C)  $2 \times 10^8$  m/s (D)  $3 \times 10^8$  m/s
- (iv) One Nano metre is equal to:  
(A)  $10^{-3}$  m (B)  $10^{-5}$  m (C)  $10^{-9}$  m (D)  $10^{-12}$  m
- (v) Evaporation takes place at:  
(A)  $0^\circ\text{C}$  (B)  $100^\circ\text{C}$  (C)  $-100^\circ\text{C}$  (D) All temperature
- (vi) The focal length of +2 diopter convex lens is:  
(A) 10 cm (B) 25 cm (C) 50 cm (D) 75 cm
- (vii) The rate of the flow of charge in a conductor is called:  
(A) Current (B) Volt (C) Farad (D) Coulomb
- (viii) The relation between magnetic field and electric current was discovered by:  
(A) Newton (B) Oersted (C) Faraday (D) Fleming
- (ix) When two forces  $F_x = 6\text{N}$  and  $F_y = 6\text{N}$  are acting on a body, the angle between them will be:  
(A) Less than  $30^\circ$  (B)  $30^\circ$  (C)  $45^\circ$  (D)  $60^\circ$
- (x) The time period of Second's Pendulum is:  
(A) 1 Second (B) 2 Seconds (C) 3 Seconds (D) 4 Seconds
- (xi) If mass of a body is 10 kg, its weight will be:  
(A) 9.8 gm (B) 98 N (C) 0.98 N (D) 0.98 kg
- (xii) The Lightest particle in an atom is:  
(A) Neutron (B) Proton (C) Alpha Particle (D) Electron
- (xiii) Joule per Coulomb is called:  
(A) ampere (B) ohm (C) volt (D) watt
- (xiv) The wave produced by a vibrating body in air is:  
(A) Transverse wave (B) Longitudinal wave  
(C) Electromagnetic wave (D) Stationary wave
- (xv) If  $q = 6$  cm and  $p = 2$  cm, magnifying power of lens will increase:  
(A) 2 times (B) 3 times (C) 4 times (D) 5 times
- (xvi) The speed of sound at N.T.P (Normal temperature and pressure) is:  
(A) 336 m/s (B) 340 m/s (C) 342 m/s (D) 350 m/s
- (xvii) It is not a simple machine:  
(A) Pair of scissors (B) Pair of forceps  
(C) Door (D) Bicycle