

Total marks 17
Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question.

1. Four possible answers to each statement are given below. Tick "✓" mark the correct answer. 17
- (i) The dimensions of spring constant 'K' are:
(a) MLT^{-2} (b) MT^{-2} (c) MLT^{-2} (d) MT^{-1}
- (ii) With the rise of temperature, the velocity of sound:
(a) Decreases (b) increases (c) remains constant (d) becomes double
- (iii) The number of nodes between two consecutive antinodes is:
(a) Zero (b) 3 (c) 2 (d) 1
- (iv) In stationary wave, the particle velocity at the nodes is:
(a) Maximum (b) minimum (c) zero (d) constant
- (v) Two light waves which are not coherent cannot produce:
(a) Interference (b) diffraction (c) polarization in same plane (d) return back
- (vi) Which of the following will travel much faster than others, through the optical fibers.
(a) Ultra-violet light (b) visible light (c) invisible infra-red light (d) white light
- (vii) The latent heat of fusion of ice is:
(a) $3.36 \times 10^3 J kg^{-1}$ (b) $3.36 \times 10^6 J kg^{-1}$ (c) $3.36 \times 10^7 J kg^{-1}$ (d) $3.36 J kg^{-1}$
- (viii) For an ideal gas system, the internal energy is directly proportional to:
(a) Pressure (b) volume (c) mass (d) temperature
- (ix) Which of the following measurement of length is most precise?
(a) 5 cm (b) 5.4 cm (c) 5.41 cm (d) 5.412 cm
- (x) In third quadrant, direction of resultant vector is ($\phi = \tan^{-1} \frac{R_y}{R_x}$):
(a) $180^\circ - \phi$ (b) $180^\circ + \phi$ (c) $360^\circ - \phi$ (d) $360^\circ + \phi$
- (xi) The disc used by a woman athlete has a mass of 1 kg. its weight in Newton is:
(a) 98 N (b) 100 N (c) 80 N (d) 9.8 N
- (xii) Motion of a body along y-axis is:
(a) One dimensional (b) two dimensional (c) three dimensional (d) four dimensional
- (xiii) Solar energy at normal incidence outside the earth atmosphere is about:
(a) $1.4 kW m^{-2}$ (b) $1 kW m^{-2}$ (c) $4.1 kW m^{-2}$ (d) $4 kW m^{-2}$
- (xiv) The angle subtended at the centre by circumference of circle is:
(a) $\frac{\pi}{4}$ rad. (b) $\frac{\pi}{2}$ rad. (c) 2π rad. (d) 4π rad.
- (xv) The law of gravitation was introduced by:
(a) Huygens (b) Boyle (c) Newton (d) Pascal
- (xvi) Moment of inertia of ring or hoop is:
(a) mr^2 (b) $\frac{2}{5} mr^2$ (c) $\frac{1}{2} mr^2$ (d) $\frac{1}{12} mr^2$
- (xvii) The density of blood is nearly equal to that of:
(a) Water (b) Milk (c) honey (d) oil

Answers by: Abdul Rehman (Lecturers in Physics) Govt. T.T.P.G College Khanpur [0334-7317948]

1	b	2	d	3	d	4	c	5	a	6	c	7	a	8	d	9	d
10	b	11	d	12	a	13	a	14	c	15	c	16	a	17	a		

Total marks 83 **Subjective Part** **Time: 3:10 Hours**

- SECTION-I**
- Q.2 Write short answers of any EIGHT questions.**
- (i) Why do we find it useful to have two units for the amount of substance, the kilogram and the mole?
(ii) The period of simple pendulum is measured by a stop watch. What type of errors are possible in the time period?
(iii) Name several repetitive phenomenon occurring in nature which could serve as reasonable time standards.
(iv) Show that the famous "Einstein equation" $E = mc^2$ is dimensionally consistent.
(v) Can the magnitude of a vector have a negative value?
(vi) Is it possible to add a vector quantity to a scalar quantity? Explain.
(vii) Prove that: $\vec{A} \cdot \vec{B} = A_x B_x + A_y B_y + A_z B_z$
(viii) Can the velocity of an object reverse the direction when acceleration is constant? If so, give an example.
(ix) Differentiate between elastic and inelastic collisions. (x) What is the difference between uniform and variable velocity?
(xi) Define momentum and write down its unit. (xi) Why fog droplets appear to be suspended in air?
- Q.3 Write short answers of any EIGHT questions.**
- (i) An object has 1 J of potential energy. Explain what does it mean? (ii) What is tidal energy?
(iii) A girl drops a cup from a certain height, which breaks into pieces. What energy changes are involved?
(iv) Explain what is meant by centripetal force and why it must be furnished to an object if the object is to follow a circular path?
(v) When mud flies off the tyre of a moving bicycle, in what direction does it fly?
(vi) Define angular displacement. (vii) Does frequency depend on amplitude for harmonic oscillators?
(viii) What is meant by phase angle? Does it define angle between maximum displacement and the driving force?
(ix) What are forced oscillations? (x) What features do longitudinal waves have in common with transverse waves?
(xi) Why does sound travel faster in solids than in gases? (xii) Explain the terms crest, trough, node and antinode.
- Q.4 Write short answers of any SIX questions.**
- (i) Define wavefronts, also give its types?
(ii) An oil film spreading over a wet footpath shows colours. Explain how does it happen?
(iii) How would you distinguish between un-polarized and plane-polarized lights?
(iv) What are the problems, having a high magnifying power in Astronomical telescope?
(v) Explain how a convex lens is used as a magnifier?
(vi) Derive the Charles' law on the basis of kinetic theory of gases?
(vii) What are the defects in first law of Thermodynamics and how they can be removed in second law of Thermodynamics?
(viii) A system undergoes from state P_1, V_1 to P_2, V_2 . What will be the change in internal energy?
(ix) Is it possible to convert internal energy into mechanical energy? Explain with an example.

- SECTION-II**
- Note: Attempt any three questions.**
5. (a) Define scalar product. Explain its four characteristics.
(b) A foot ball is thrown upward with an angle of 30° with respect to the horizontal. To throw a 40m pass what must be the initial speed of the ball?
6. (a) What is Geo stationary satellite. Derive relation for the radius of Geo stationary orbit.
(b) How large a force is required to accelerate an electron ($m = 9.1 \times 10^{-31} kg$) from rest to a speed of $2.0 \times 10^8 ms^{-1}$ through a distance of 5.0 cm?
7. (a) For a spring mass system, derive relations for P.E and K.E. Also show that total energy remains constant.
(b) Find the temperature at which the velocity of sound in air is two times its velocity at $10^\circ C$.
8. (a) Define diffraction. Explain diffraction of light in a grating.
(b) An astronomical telescope having magnifying power of 5 consist of two thin lenses 24 cm apart. Find the focal length of the lenses.
9. (a) State and prove Bernoulli's equation.
(b) Estimate the average speed of nitrogen molecules in air under standard conditions of pressure and temperature.

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