Total marks 17 **Objective Part** **Time: 20 Minutes**

Note: Write answers to the questions on objective answer sheet provided. Four possible answer A, B, C and D to each question are given. Which answer you consider correct, fill the corresponding circle A, B, C or D given in front of each question with Marker or pen ink on the answer provided.

1. Four possible answers to each statement are given below. Tick " ✓ " mark the correct answer. 17

(i) **Two tuning forks of frequencies 240Hz and 243Hz are sounded together, the number of beats per second is:**
(a) Zero (b) 4 (c) 3 (d) 2

(ii) **The distance between two consecutive nodes and antinodes is:**
(a) λ (b) $\lambda/2$ (c) 2λ (d) $\lambda/4$

(iii) **In Young's double slit experiment, the position of dark fringes is given by:**
(a) $Y_n = \frac{m\lambda L}{d}$ (b) $Y_n = \frac{m\lambda d}{L}$ (c) $Y_n = (m+\frac{1}{2})\frac{\lambda L}{d}$ (d) $Y_n = (m+\frac{1}{2})\frac{\lambda d}{L}$

(iv) **The final image seen through eye-piece in telescope is:**
(a) Real, enlarge and inverted (b) Virtual enlarge and erect
(c) Virtual, enlarge and inverted (d) Real, enlarge and erect.

(v) **For working of heat engine, there must be:**
(a) a source (b) a sink (c) either of these (d) both of these

(vi) **The curve representing an adiabatic process is called:**
(a) An adiabatic (b) An isotherm (c) both of these (d) None of these

(vii) **The unit of work in base units is:**
(a) $Kgms^{-1}sec^{-2}$ (b) $Kgms\,sec^{2}$ (c) $Kgm^{2}sec^{-2}$ (d) $Kgms^{-1}sec^{-1}$

(viii) **The first condition of equilibrium implies that:** (a) $\sum f = 0$ (b) $\sum f_x = 0$ (c) $\sum f_y = 0$ (d) $\sum f_x = \sum f_y$

(ix) **The velocity of a projectile is maximum.**
(a) at the highest point (b) at point of launching and just before striking the ground
(c) at half of the height (d) after striking the ground

(x) **Impulse can be defined as:** (a) $\vec{I} = \vec{F} \times \vec{d}$ (b) $\vec{I} = \vec{F} \times \vec{t}$ (c) $\vec{I} = \vec{F} \times \vec{V}$ (d) $\vec{I} = \vec{F}/t$

(xi) **Biomass is a potential source of:**
(a) Renewable energy (b) Non-Renewable energy (c) Both (A) and (B) (d) Tidal energy

(xii) **Close orbiting satellites orbit the earth at a height of about:**
(a) 400km (b) 4000km (c) 400m (d) 400cm

(xiii) **The force and torque are analogous to:**
(a) velocity (b) mass and weight (c) moment of inertia (d) each other

(xiv) **Relation between escape velocity and orbital velocity is:**
(a) $V_{esc} = \frac{1}{2}V_o$ (b) $V_{esc} = \sqrt{2}V_o$ (c) $V_{esc} = V_o$ (d) $V_{esc} = 2V_o$

(xv) **A 6.0 meter high tank is full of water. A hole appears at its middle. What is the speed of efflux:**
(a) $7.66ms^{-1}$ (b) $5.66ms^{-1}$ (c) $6.66ms^{-1}$ (d) $8.66ms^{-1}$

(xvi) **When a particle is moving along a circular path, its projection along the diameter executes:**
(a) Linear motion (b) Vibratory motion (c) Rotatory motion (d) SHM

(xvii) **With increase of temperature, speed of sound:**
(a) Remains constant (b) becomes zero (c) decreases (d) increases

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

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

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

SECTION-I

Q.2 Write short answers of any EIGHT questions.
(i) State Newton's second law of motion.
(ii) Show that the expression $V_f = V_i + at$ is dimensionally correct.
(iii) Differentiate between precision and accuracy.
(iv) Write the dimensions of: (i) Pressure (ii) Angular momentum.
(v) State condition of rotational equilibrium.
(vi) Can the magnitude of a vector has a negative value?
(vii) Define the supplementary units of plane angle and solid angle.
(viii) Differentiate between elastic and inelastic collisions.
(ix) Name three different conditions that could make $\vec{A}_1 \times \vec{A}_2 = 0$.
(x) Find the value of V_1' and V_2' after elastic collision of light body with massive body at rest.
(xi) At what point or points in its path does a projectile has its minimum speed or its maximum speed?
(xii) Why a chimney works best when it is tall and exposed to air currents?

Q.3 Write short answers of any EIGHT questions.
(i) Why does sound travel in solids than in gases?
(ii) How are beats useful in tuning musical instrument?
(iii) Prove that 1kWh = 3.6MJ
(iv) Prove that 1rad= 57.3°
(v) Can we realize an ideal simple pendulum?
(vi) How cooking of food is possible in micro-wave oven?
(vii) Explain how many minimum number of geo-stationary satellites are required for global coverage of T.V transmission.
(viii) Describe some common phenomena in which resonance plays an important role.
(ix) Why does a diver change his body positions before and after diving in the pool?
(x) An object has 1J of potential energy. Explain what does it mean?
(xi) A girl drops a cup from a certain height, which breaks into pieces. What energy changes are involved?
(xii) What features do longitudinal waves have in common with transverse waves?

Q.4 Write short answers of any SIX questions.
(i) Can mechanical energy be converted completely into heat energy? Explain.
(ii) How would you manage to get more orders of spectra using a diffraction grating?
(iii) Is it possible to construct heat engine that will not expel heat to surrounding?
(iv) Why does pressure of a gas in a car tyre increases when it is driven through some distance?
(v) Why would it be advantageous to use blue light with a compound microscope?
(vi) Define angular magnification and linear magnification.
(vii) What is plane polarized light?
(viii) Can visible light produce interference fringes?
(ix) Why Cp > CV?

SECTION-II

Note: Answer any three questions from the following.

5.(a) Find resultant of $\vec{A}$ and $\vec{B}$ using addition of vectors by rectangular components.
(b) A 1500kg car has its velocity reduced from 20m/Sec to 15m/Sec in 3.0Sec.How large was the average retarding force?
6.(a) Explain the interconversion of potential energy and kinetic energy.
(b) A body of moment of inertia I= $0.80Kgm^2$ about a fixed axis rotates with constant angular velocity of $100rads^{-1}$.Calculate its angular momentum and torque to sustain this motion.
7.(a) Show that $V_f = V_o + 0.61r$.
(b) A simple pendulum is 50.0cm long. What will be its frequency of vibration at a place where $g = 9.8ms^{-2}$?
8.(a) Describe McChelson's rotational mirror method for the measurement of speed of light.
(b) In a double slit experiment the second order maximum occurs at $\theta = 25°$, the wavelength is 650 nm. Determine the slit Separation.
9.(a) State and explain equation of continuity.
(b) The turbine in a steam power plant takes steam from a boiler at 427°C and exhausts into a low temperature reservoir at 77°C .What is the maximum possible efficiency?

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A Gutmann

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