PHYSICS

Note :   (i)   All questions are compulsory.
        (ii)   Neat diagrams must be drawn wherever necessary.
        (iii) Figures to the right indicate full marks.
        (iv)   Use of only logarithmic table is allowed.
        (v)   All symbols have their usual meaning unless otherwise stated.
        (vi)   Answers to both sections must be written in the <u>same answerbook</u>.
        (vii) Answer to every question must be written on a new page.

SECTION – I

Q.1. State an expression for the moment of inertia of a solid uniform disc, rotating **[7]** about an axis passing through its centre, perpendicular to its plane. Hence derive an expression for the moment of inertia and radius of gyration :

(i) about a tangent in the plane of the disc, and

(ii) about a tangent perpendicular to the plane of the disc.

In a set, 21 tuning forks are arranged in a series of decreasing frequencies. Each tuning fork produces 4 beats per second with the preceding fork. If the first fork is an octave of the last fork, find the frequencies of the first and tenth forks.

OR

Discuss the composition of two S.H.M.s along the same path having same period. Find the resultant amplitude and initial phase.

A sonometer wire is in unison with a tuning fork of frequency 125 Hz when it is stretched by a weight. When the weight is completely immersed in water, 8 beats are heard per second. Find the specific gravity of the material of the weight.

Q. 2. Select and write the most appropriate answer from the given alternatives for each sub-question : **[7]**

(i) Which of the following substances is ductile ?

(a) Glass   (b) High carbon steel   (c) Steel   (d) Copper

(ii) Angle of contact for the pair of pure water with clean glass is _____.

(a) acute   (b) obtuse   (c) $90°$ (d) $0°$

(iii) A seconds pendulum is suspended in an elevator moving with constant speed in downward direction. The periodic time (T) of that pendulum is _____.

(a) less than two seconds

(b) equal to two seconds

(c) greater than two seconds

(d) very much greater than two seconds

(iv) The equation of a progressive wave is $y = 7\sin(4t - 0.02x)$, where x and y are in cms and time t in seconds. The maximum velocity of a particle is _____.

(a) 28 cm/s   (b) 32 cm/s   (c) 49 cm/s   (d) 112 cm/s

(v) The dimensions of emissive power are –

(a) $[M^1 L^{-2} T^{-3}]$ (b) $[M^1 L^2 T^{-3}]$ (c) $[M^1 L^0 T^{-3}]$ (d) $[M^1 L^0 T^{-2}]$

(vi) The pressure (P) of an ideal gas having volume (V) is $\dfrac{2E}{3V}$, then the energy E is _____.

(a) translational kinetic   (b) rotational kinetic

(c) vibrational kinetic   (d) inversely proportional to pressure

(vii) The fundamental frequency of transverse vibration of a stretched string of radius r is proportional to _____.

(a) r^{-2} (b) r^{-1} (c) $r^{-\frac{1}{2}}$ (d) r^2

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1. Understanding the eBook Hsc Physics Important Question 2015
    - The Rise of Digital Reading Hsc Physics Important Question 2015
    - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Physics Important Question 2015
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Hsc Physics Important Question 2015
    - User-Friendly Interface

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