PHYSICS
OCTOBER – 2013

Time : 3 hrs.]   [Marks : 70

SECTION – I

Q. 1. Derive an expression for the period of motion of a simple pendulum. On which factors does it depend?

A ballet dancer spins about a vertical axis at 2.5p rad/s with his both arms outstretched. With the arms folded, the moment of inertia about the same axis of rotation changes by 25%. Calculate the new speed of rotation in r. p. m.   **[7]**

OR

Q. 1. Draw neat labelled diagrams for modes of vibration of an air column in a pipe when it is (a) open at both ends, (b) closed at one end.

Hence derive an expression for fundamental frequency in each case. A soap bubble of radius 12 cm is blown. Surface tension of soap solution is 30 dyne/cm.

Calculate the work done in blowing the soap bubble.   **[7]**

Q. 2. **Attempt any THREE :**   **[9]**

  (i) In a conical pendulum, a string of length 120 cm is fixed at rigid support and carries a mass of 150 g at its free end. If the mass is revolved in a horizontal circle of radius 0.2 m around a vertical axis, calculate tension in the string. ($g = 9.8$ m/s^2)

  (ii) Explain the behaviour of metal wire under increasing load.

  (iii) Derive an expression for one dimensional simple harmonic progressive wave travelling in the direction of positive X-axis. Express it in 'two' different forms.

  (iv) The kinetic energy of nitrogen per unit mass at 300K is 2.5×10^6 J/Kg. Find the kinetic energy of 4 Kg oxygen at 600 K.

(Molecular weight of nitrogen = 28, Molecular weigh of oxygen = 32)

Q. 3. **Attempt any SIX :**   **[12]**

  (i) A racing car completes 5 rounds of a circular track in 2 minutes. Find the radius of the track if the car has uniform centripetal acceleration of π^2 m/s^2.

  (ii) A body weighs 4.0 Kgwt on the surface of the Earth. What will be its weight on the surface of a planet whose mass is $\frac{1}{8}^{th}$ of the mass of the Earth and radius half $\left(\frac{1}{2}\right)$ of that of the Earth?

  (iii) Define radius of gyration. Explain its physical significance.

  (iv) A body of mass 1 Kg is made to oscillate on a spring of force constant 16 N/m. Calculate :   (a) Angular frequency, (b) Frequency of vibration

  (v) Show that the surface tension of a liquid is numerically equal to the surface energy per unit area.

  (vi) Explain black body radiation spectrum in terms of wavelength.

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F Rizvi

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Table of Contents Hsc Question Paper Of Physics Oct 23

1. Understanding the eBook Hsc Question Paper Of Physics Oct 23
   - The Rise of Digital Reading Hsc Question Paper Of Physics Oct 23
   - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Question Paper Of Physics Oct 23
   - 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 Question Paper Of Physics Oct 23
   - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Question Paper Of Physics Oct 23
   - Personalized Recommendations
   - Hsc Question Paper Of Physics Oct 23 User Reviews and Ratings
   - Hsc Question Paper Of Physics Oct 23 and Bestseller Lists
5. Accessing Hsc Question Paper Of Physics Oct 23 Free and Paid eBooks
   - Hsc Question Paper Of Physics Oct 23 Public Domain eBooks
   - Hsc Question Paper Of Physics Oct 23 eBook Subscription Services
   - Hsc Question Paper Of Physics Oct 23 Budget-Friendly Options

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