

Time : 2 Hrs.

Max. Marks : 40

Q. 1 Select and write the most appropriate answer from the given alternatives for each sub question.

- (i) A body performing uniform circular motion has (1)
 - (a) constant velocity
 - (b) constant acceleration
 - (c) constant kinetic energy
 - (d) constant displacement
- (ii) The time period T of the artificial satellite of earth depends on the average density ' ρ ' of the earth as (1)
 - (a) $T \propto \rho$
 - (b) $T \propto \sqrt{\rho}$
 - (c) $T \propto \frac{1}{\sqrt{\rho}}$
 - (d) $T \propto \frac{1}{\rho}$
- (iii) In simple harmonic motion, acceleration of the particle is zero, when its (1)
 - (a) velocity is zero
 - (b) displacement is zero
 - (c) both velocity and displacement are zero
 - (d) both velocity and displacement are maximum.
- (iv) Strain energy per unit volume is given by (1)
 - (a) $\frac{1}{2} \frac{(\text{stress})^2}{Y}$
 - (b) $\frac{1}{2} (\text{stress})^2 \cdot Y$
 - (c) $\frac{1}{2} \frac{Y}{(\text{stress})^2}$
 - (d) $\frac{1}{2} \frac{(\text{strain})^2}{Y}$
- (v) In open organ pipe, first overtone produced is of such frequency that length of the pipe is equal to (1)
 - (a) $\frac{\lambda}{4}$
 - (b) $\frac{\lambda}{3}$
 - (c) $\frac{\lambda}{2}$
 - (d) λ
- (vi) For athermanous surface (1)
 - (a) $r = 1$
 - (b) $a = 1$
 - (c) $t = 0$
 - (d) $t = 1$
- (vii) A body is acted upon by a constant torque. In 4 seconds its angular momentum changes from L to $4L$. The magnitude of the torque is (1)
 - (a) $\frac{L}{4}$
 - (b) $\frac{3L}{4}$
 - (c) $3L$
 - (d) $12L$
- (viii) A vibrating tuning fork emits sound waves of period 2×10^{-3} second and wavelength 0.7 m in air. The velocity of sound in air is (1)
 - (a) 175 m/s
 - (b) 330 m/s
 - (c) 340 m/s
 - (d) 350 m/s

Q. 2 (A) Attempt any One :

- (i) When the pressure applied to one litre of a liquid is increased by 2×10^6 N/m² its volume decreases by 10^{-6} m³. Find the bulk modulus of the liquid. (2)
- (ii) An object of mass 1 kg is tied to one end of a string of length 9 m and whirled in a vertical circle. What is minimum speed required at the lowest position to complete a circle ? (Acceleration due to gravity = 9.8 m/s²) (2)

(B) Attempt any Two :

- (i) Define surface tension. Explain the effect of impurity on surface tension. (3)
- (ii) What is perfectly black body ? Draw a neat labelled diagram of artificial perfectly black body. (3)
- (iii) Derive an expression for moment of inertia of a thin uniform rod about an axis passing through its centre and perpendicular to its length. (3)

Q. 3 (A) Attempt any One :

- (i) Which specific heat of a gas is greater ? Why ? (2)
- (ii) Represent graphically the variations of K.E., P.E. and T.E. of a particle performing linear S.H.M. with respect to displacement. (2)

(B) Attempt any Two :

- (i) Derive an expression for period of a conical pendulum. (3)
- (ii) With the help of a neat graph, discuss the behaviour of a wire subjected to increasing load. (3)
- (iii) What is Surface energy ? Obtain the relation between surface tension and surface energy. (3)

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K Morrison



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The Top Books of the Year Hsc Board Question Papers Science 2008 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Table of Contents Hsc Board Question Papers Science 2008

1. Understanding the eBook Hsc Board Question Papers Science 2008
 - The Rise of Digital Reading Hsc Board Question Papers Science 2008
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Board Question Papers Science 2008
 - 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 Board Question Papers Science 2008
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Board Question Papers Science 2008
 - Personalized Recommendations
 - Hsc Board Question Papers Science 2008 User Reviews and Ratings
 - Hsc Board Question Papers Science 2008 and Bestseller Lists
5. Accessing Hsc Board Question Papers Science 2008 Free and Paid eBooks
 - Hsc Board Question Papers Science 2008 Public Domain eBooks
 - Hsc Board Question Papers Science 2008 eBook Subscription Services
 - Hsc Board Question Papers Science 2008 Budget-Friendly Options
6. Navigating Hsc Board Question Papers Science 2008 eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Board Question Papers Science 2008 Compatibility with Devices
 - Hsc Board Question Papers Science 2008 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Board Question Papers Science 2008
 - Highlighting and Note-Taking Hsc Board Question Papers Science 2008
 - Interactive Elements Hsc Board Question Papers Science 2008
8. Staying Engaged with Hsc Board Question Papers Science 2008

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Hsc Board Question Papers Science 2008
- 9. Balancing eBooks and Physical Books Hsc Board Question Papers Science 2008
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Board Question Papers Science 2008
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc Board Question Papers Science 2008
 - Setting Reading Goals Hsc Board Question Papers Science 2008
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc Board Question Papers Science 2008
 - Fact-Checking eBook Content of Hsc Board Question Papers Science 2008
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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