



Federal Board HSSC-I Examination
Physics Model Question Paper

Time allowed: 2.35 hours

Total Marks: 68

Note: Sections 'B' 'C' and 'D' comprise pages 1-2 and questions therein are to be answered on the separately provided Answer Book. Use supplementary answer sheet i.e., sheet B if required. Write your answers neatly and legibly.

SECTION – B (Marks 21)

(Chapters 1 to 5)

Q.2 Attempt any SEVEN parts. All parts carry equal marks. (7 × 3 = 21)

- i. Show that one radian = 57.3° .
- ii. How are uncertainties measured in final result of power factor and volume?
- iii. Prove that if the vectors \vec{A} & \vec{B} are parallel to each other, then $\vec{A} \cdot \vec{B} = \pm AB$.
- iv. If $(\vec{A} \times \vec{B}) = 0$, then either of the two vectors is a null vector or vector \vec{A} and \vec{B} are parallel to each other. Prove it.
- v. Why is it helpful to wear a helmet while riding?
- vi. Does a moving object have impulse? Explain.
- vii. Name the various non-conventional sources of energy and write down their characteristics.
- viii. Why are energy savers used instead of normal bulbs?
- ix. Prove that $r_0 = \left[\frac{GM_E T^2}{4\pi^2} \right]^{1/2}$ of geostationary satellite.
- x. Why does the coasting rotating system slowdown as water drops into the beaker?

SECTION – C (Marks 21)

(Chapters 6 to 10)

Q.3 Attempt any SEVEN parts. All parts carry equal marks. (7 × 3 = 21)

- i. What is an aerofoil? Explain its working in accordance with Bernoulli's equation.
- ii. When water falls from a tap, why does the cross-sectional area of droplet decreases as it comes down?
- iii. What is meant by damped Oscillation? Show it graphically.
- iv. In relation to SHM, explain the equations:
a. $Y = A \sin(\omega t + \phi)$ b. $a = -\omega^2 x$
- v. Write down the applications of Doppler Effect.
- vi. How can you generate ultrasonic waves and how can you detect them?
- vii. What do you know about grating spectrometer?
- viii. Why is ordinary light not polarized?
- ix. Two blocks of ice are pressed together in order to form a single piece. Explain how this happens.
- x. What is the function of spark plug in a petrol engine?

Model Question Paper Of Physics Std 11

O García



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Model Question Paper Of Physics Std 11: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthraling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly 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 captivating 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. Model Question Paper Of Physics Std 11 : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling 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 Papan, 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 brilliant and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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