

- (vii) The value of end correction for an open organ pipe of radius 'r' is \_\_\_\_\_.
- (a)  $0.3 r$  (b)  $0.6 r$  (c)  $0.9 r$  (d)  $1.2 r$

**Q. 4.** Distinguish between forced vibrations and resonance. Draw neat, labelled diagrams for the modes of vibration of a stretched string in second harmonic and third harmonic.

The area of the upper face of a rectangular block is  $0.5 \text{ m} \times 0.5 \text{ m}$  and the lower face is fixed. The height of the block is  $1 \text{ cm}$ . A shearing force applied at the top face produces a displacement of  $0.015 \text{ mm}$ . Find the strain and shearing force. (Modulus of rigidity :  $\eta = 4.5 \times 10^{10} \text{ N/m}^2$ )

[7]

OR

**Q. 4.** Define phase of S.H.M. Show variation of displacement, velocity and acceleration with phase for a particle performing linear S.H.M. graphically, when it starts from extreme position.

A body starts rotating from rest. Due to a couple of  $20 \text{ Nm}$  it completes 60 revolutions in one minute. Find the moment of inertia of the body.

[7]

### SECTION - II

**Q. 5.** Attempt any THREE :

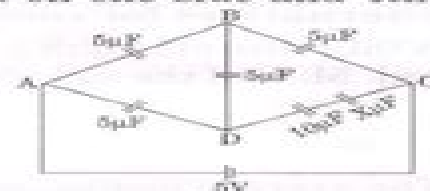
[9]

- (i) In a biprism experiment, a slit is illuminated by a light of wavelength  $4800 \text{ \AA}$ . The distance between the slit and biprism is  $15 \text{ cm}$  and the distance between the biprism and eyepiece is  $85 \text{ cm}$ . If the distance between virtual sources is  $3 \text{ mm}$ , determine the distance between 4th bright band on one side and 4th dark band on the other side of the central bright band.

- (ii) Six capacitors of capacities  $5, 5, 5, 5, 10$  and  $X \mu\text{F}$  are connected as shown in the network in the diagram..

Find :

- (a) The value of  $X$  if the network is balanced, and  
 (b) The resultant capacitance between  $A$  and  $C$ .
- (iii) Show that the current flowing through a moving coil galvanometer is directly proportional to the angle of deflection of coil.
- (iv) Explain the formation of energy band diagram in case of conductor and semiconductor.



**Q. 6.** Attempt any SIX :

[12]

- (i) Draw a neat labelled diagram showing the plane of vibration and plane of polarisation for polarised light.
- (ii) State the conditions to get steady interference pattern.
- (iii) In a hydrogen atom, an electron carrying charge 'e' revolves in an orbit of radius 'r' with speed 'v'. Obtain an expression for the magnitude of magnetic moment of a revolving electron.
- (iv) Draw a neat, labelled block diagram for a generalised communication system.
- (v) A red light of wavelength  $6400 \text{ \AA}$  in air has wavelength  $4000 \text{ \AA}$  in glass. If the wavelength of violet light in air is  $4400$ , find its wavelength in glass. (Assume that  $\mu_r \approx \mu_v$ )
- (vi) The magnetic moment of a magnet of dimensions  $5 \text{ cm} \times 2.5 \text{ cm} \times 1.25 \text{ cm}$  is  $3 \text{ Am}^2$ . Calculate the intensity of magnetization.

# Oct 2014 Target Hsc Papers

**Michel Prudent, Jean-Daniel  
Tissot, Stefano Fontana, Christoph  
Niederhauser**

**Oct 2014 Target Hsc Papers:**

The Top Books of the Year Oct 2014 Target Hsc Papers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging 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 masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating 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 captivating 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, captivating readers with its evocative prose and mesmerizing setting. These bestselling 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 an exceptional and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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