

Q8

If a man throws up a ball and catches it after some time. This time is called time of flight. Time of flight in these types of motion depend on whether the man is stationary or he is accelerated. If the man is in a moving lift throws a ball and catches it after time  $t_1$  when lift is moving up with acceleration  $a$  and catches the ball in time  $t_2$  if the lift is moving down with same acceleration  $a$ . The speed with which ball is thrown w.r.t. man is

- (a)  $\frac{gt_1 t_2}{t_1 - t_2}$  (b)  $\frac{gt_1 t_2}{t_1 + t_2}$  (c)  $\frac{2gt_1 t_2}{t_1 - t_2}$  (d)  $\frac{2gt_1 t_2}{t_1 + t_2}$

Q9

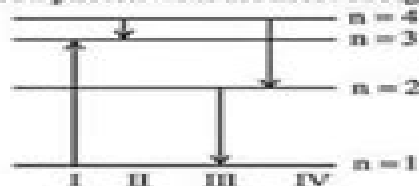
A stone projected with a velocity  $u$  at an angle  $\theta$  with the horizontal reaches maximum height  $H_1$ . When it is projected

with velocity  $u$  at an angle  $\left(\frac{\pi}{2} - \theta\right)$  with the horizontal, it reaches maximum height  $H_2$ . The relation between the horizontal range  $R$  of the projectile, heights  $H_1$  and  $H_2$  is

- (a)  $R = 4\sqrt{H_1 H_2}$  (b)  $R = 4(H_1 - H_2)$   
(c)  $R = 4(H_1 + H_2)$  (d)  $R = \frac{H_1^2}{H_2^2}$

Q10

The diagram shows the energy levels for an electron in a certain atom. Which transition shown represents the emission of a photon with the most energy?



- (a) IV (b) III (c) II (d) I

Q11

In optical communication system operating at 1200 nm, only 2% of the source frequency is available for TV transmission having a bandwidth of 5 MHz. The number of TV channels that can be transmitted is

- (a) 2 million (b) 10 million  
(c) 0.1 million (d) 1 million

Q12

A neutron travelling with a velocity  $v$  and kinetic energy  $E$  has a perfectly elastic head-on collision with a nucleus of an atom of mass number  $A$  at rest. The fraction of total energy retained by the neutron is approximately

- (a)  $[(A-1)/(A+1)]^2$  (b)  $[(A+1)/(A-1)]^2$   
(c)  $[(A-1)/A]^2$  (d)  $[(A+1)/A]^2$

Q13

A transverse wave is represented by the equation

$y = y_0 \sin \frac{2\pi}{\lambda} (vt - x)$  For what value of  $\lambda$  is the maximum particle velocity equal to two times the wave velocity?

- (a)  $\lambda = 2\pi y_0$  (b)  $\lambda = \frac{\pi y_0}{3}$   
(c)  $\lambda = \frac{\pi y_0}{2}$  (d)  $\lambda = \pi y_0$

Q14

A vessel contains 110 g of water. The heat capacity of the vessel is equal to 10 g of water. The initial temperature of water in vessel is  $10^\circ\text{C}$ . If 220g of hot water at  $70^\circ\text{C}$  is poured in the vessel, the final temperature neglecting radiation loss, will be

- (a)  $70^\circ\text{C}$  (b)  $80^\circ\text{C}$   
(c)  $60^\circ\text{C}$  (d)  $50^\circ\text{C}$

Q15

# Jee Main Sample Paper

**Oswaal Editorial Board**



**Jee Main Sample Paper:**

The Top Books of the Year Jee Main Sample Paper The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. Jee Main Sample Paper : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Jee Main Sample Paper : 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. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing 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 a masterful and gripping 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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web the enthalpy change of neutralisation is defined as the enthalpy change when solutions of an acid and alkali react together to produce one mole of water for example  $\text{HCl(aq)} + \text{NaOH(aq)} \rightarrow \text{NaCl(aq)} + \text{H}_2\text{O(aq)}$  you can see that one mole of water is produced when one mole of HCl or one mole of NaOH reacts