

(b) Attempt any ONE of the following :

(i) Evaluate $\int_0^1 x^2 (1-x)^{\frac{3}{2}} dx$ (3)

(ii) Evaluate : $\int_0^{\pi/4} \frac{\sin 2x}{2 + 2 \sin^2 x + \cos^2 x} dx$ (3)

(B) Attempt any ONE of the following :

(i) Evaluate : $\int \frac{\sec^2 (\log x)}{x} dx$ (2)

(ii) Evaluate : $\int \frac{dx}{1 + \cos 2x}$ (2)

Q. 4 (A) (a) Attempt any TWO of the following : [8]

(i) Differentiate $\sin^{-1} \left(\frac{2x}{1+x^2} \right)$ w.r.t. $\cos^{-1} \left(\frac{1-x^2}{1+x^2} \right)$ (3)

(ii) If $y = e^{m \cdot \tan^{-1} x}$ then show that,
 $(1+x^2) \frac{d^2 y}{dx^2} + (2x-m) \frac{dy}{dx} = 0$ (3)

(iii) Find approximately $\sin 31^\circ$, given that $1^\circ = 0.0175^\circ$ and $\cos 30^\circ = 0.8660$ (3)

(B) Attempt any ONE of the following :

(i) Divide 20 into two parts so that their product is maximum. (2)

(ii) If $x = \cos (xy)$, find $\frac{dy}{dx}$. (2)

Q. 5 (A) Attempt any ONE of the following : [8]

(i) Evaluate : $\lim_{x \rightarrow \frac{\pi}{4}} \frac{1 - \tan x}{\pi - 4x}$ (3)

(ii) Evaluate : $\lim_{x \rightarrow e} \frac{\log x - 1}{x - e}$ (3)

(iii) Find the value of 'K',
 if the function $f(x) = \frac{1 - \cos kx}{x - \sin x}$, for $x \neq 0$
 $= 2$, for $x = 0$
 is continuous at $x = 0$. (3)

(B) Attempt any ONE of the following :

(i) If B is a Boolean algebra and $x \in B$, then show that $x + x = x$ (2)

(ii) Draw the switching circuit of the Boolean expression : $[a \cdot b' \cdot (c + d)] + [a' \cdot (b + c)]$ (2)

Hsc 2009 Mathematics Question Paper

Jianjun Gao



Hsc 2009 Mathematics Question Paper:

Hsc 2009 Mathematics Question Paper: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Let's delve into the realm of bestselling books, exploring the captivating narratives that have enthralled 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 prevail.

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Hsc 2009 Mathematics Question Paper : 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 crafts 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 Pappen, 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 suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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