

BOARD QUESTION PAPER : FEBRUARY 2020

MATHEMATICS AND STATISTICS

Time: 3 Hours

Max. Marks: 80

General Instructions:

The question paper is divided into FOUR sections.

- Section A: Q. 1 contains Eight multiple choice type of questions carrying Two marks. Q. 2 contains Four sub-questions each carrying One mark each.
- Section B: Q. 3 to Q. 14 each carries Two mark. (Attempt any Eight)
- Section C: Q. 15 to Q. 26 carries Three marks. (Attempt any Eight)
- Section D: Q. 27 to Q. 34 each carries Four marks. (Attempt any Five)
- Use of log table is allowed. Use of calculator is not allowed.
- Figures to the right indicate full marks.
- Use of graph paper is not necessary. Only rough sketch of graph is expected.
- For each MCQ, correct answer must be written along with its alphabet:
e.g. (a) ——— / (b) ——— / (c) ——— / (d) ——— etc.
- Start answers to each section on a new page.

SECTION - A

Q.1. Select and write the most appropriate answer from the given alternatives for each question: [16]

- In $\triangle ABC$, if $a = 2$, $b = 3$ and $\sin A = \frac{2}{3}$, then $\angle B =$ _____
 (A) $\frac{\pi}{4}$ (B) $\frac{\pi}{2}$ (C) $\frac{\pi}{3}$ (D) $\frac{\pi}{6}$ (2)
- If $\vec{a} = 3\hat{i} - \hat{j} + 4\hat{k}$, $\vec{b} = 2\hat{i} + 3\hat{j} - \hat{k}$ and $\vec{c} = -3\hat{i} + 2\hat{j} + 3\hat{k}$, then $\vec{a} \cdot (\vec{b} \times \vec{c})$ is _____
 (A) 100 (B) 110 (C) 109 (D) 108 (2)
- The cartesian equation of the line passing through the points $A(4, 2, 1)$ and $B(2, -1, 3)$ is _____
 (A) $\frac{x-4}{2} = \frac{y-2}{3} = \frac{z-1}{-2}$ (B) $\frac{x-4}{-2} = \frac{y-2}{-3} = \frac{z-1}{-2}$
 (C) $\frac{x-4}{2} = \frac{y-2}{3} = \frac{z-1}{-2}$ (D) $\frac{x-4}{-2} = \frac{y-2}{3} = \frac{z-1}{-2}$ (2)
- If the line $\vec{r} = (\hat{i} - 2\hat{j} + 3\hat{k}) + \lambda(\hat{i} + \hat{j} + 2\hat{k})$ is parallel to the plane $\vec{r} \cdot (3\hat{i} - 2\hat{j} + m\hat{k}) = 10$, then value of m is _____
 (A) -2 (B) 2 (C) ± 2 (D) 0 (2)
- If $f(x) = 1 - x$, for $0 \leq x \leq 1 + k$, for $x = 0$ is continuous at $x = 0$, then $k =$ _____
 (A) 0 (B) -1 (C) 2 (D) 1 (2)
- The function $f(x) = x^e$ is minimum at $x =$ _____
 (A) $-e$ (B) $-e$ (C) $\frac{1}{e}$ (D) $-\frac{1}{e}$ (2)
- If $\int_0^k 4x^2 dx = 16$, then the value of k is _____
 (A) 1 (B) 2 (C) 3 (D) 4 (2)

Hsc Board Maths Question Paper 201

TD Snyder

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Hsc Board Maths Question Paper 201:

The Top Books of the Year Hsc Board Maths Question Paper 201 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled 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. Hsc Board Maths Question Paper 201 : 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. Hsc Board Maths Question Paper 201 : 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 weaves a tale of resilience, survival, and the transformative power of nature, captivating 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 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 exceptional and thrilling 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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eigenen pflegeprodukte herstellen und ihnen nach ihren vorlieben eine individuelle note verleihen alle zutaten bekommen sie im alnatura super natur markt

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web jun 15 2022 50ml jojobaöl 50ml mandelöl 25ml arnikaöl 25ml weizenkeimöl 4 6 tropfen ätherisches Öl z b orange anleitung vermische alle Öle miteinander und fülle sie in eine braunglasflasche

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und den dermatologen dr stefan duve zu verträglichkeit und nutzen der selbstgemachten kosmetik befragt hier findest du die besten tipps und rezepte kosmetikprodukte ohne mikroplastik

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