



MATHEMATICS HSSC-I

36

Time allowed: 2:35 Hours

Total Marks Sections B and C: 80

NOTE: Attempt any twelve parts from Section 'B' and any four questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly. Graph paper will be provided on request.

SECTION - B (Marks 48)

Q. 2 Attempt any TWELVE parts. All parts carry equal marks.

(12 x 4 = 48)

- Separate $\frac{(2-3i)^2}{1-i}$ into real and imaginary parts.
 - Determine whether $p \rightarrow (q \rightarrow p)$ is a tautology, a contingency or an absurdity.
 - If $A = \{1, 2, 3, 4\}$, state the domain and range of the relation $R = \{(x, y) | x + y = 5\}$
 - Under the operation $***$, complete the following table to obtain a semigroup
- | | | | |
|---|---|---|---|
| | a | b | c |
| a | c | a | b |
| b | — | — | c |
| c | b | c | a |
- Find the matrix A if $\begin{bmatrix} 2 & -1 \\ -1 & 2 \end{bmatrix} A = \begin{bmatrix} 0 & -3 & 8 \\ 3 & 3 & -7 \end{bmatrix}$
 - Find the inverse of matrix $A = \begin{bmatrix} 2i & i \\ i & -i \end{bmatrix}$, hence show that $AA^{-1} = I_2$
 - If α, β are roots of $3x^2 - 2x + 4 = 0$, then find the value of $\frac{\alpha}{\beta} + \frac{\beta}{\alpha}$
 - Resolve $\frac{3x-11}{(x+3)(x^2+1)}$ into partial fractions.
 - If $y = 1 - \frac{x}{2} + \frac{x^2}{4} - \dots$, then show that $x = 2\left(\frac{1-y}{y}\right)$
 - Find values of n and x , when ${}^nC_r = 10$ and ${}^nP_r = 60$.
 - There are 9 green and 6 red balls in a box. A ball is drawn (taken out). What is the probability that (i) the ball is green (ii) the ball is red.
 - Expand and simplify $(2+i)^6 - (2-i)^6$
 - Find the remaining trigonometric functions if $\cos \theta = -\frac{1}{2}$ and the terminal arm of angle θ is in quad-III.
 - Show that $\frac{\sin(\alpha - \beta)}{\sin(\alpha + \beta)} = \frac{\tan \alpha - \tan \beta}{\tan \alpha + \tan \beta}$
 - Find the measure of smallest angle of the triangle whose sides are 16, 20 and 33
 - Show that $2 \cos^{-1} \frac{4}{5} = \sin^{-1} \frac{24}{25}$

SECTION - C (Marks 32)

Note: Attempt any FOUR questions. All questions carry equal marks.

(4 x 8 = 32)

- Find the real and imaginary parts of the complex number $\frac{(\sqrt{3}-i)^5}{(\sqrt{3}+i)^5}$
- Find the value of λ for which the system $\begin{matrix} x+y+z=0 \\ 2x+y-\lambda z=0 \\ x+2y-2z=0 \end{matrix}$ has a non-trivial solution. Also solve the system for that value of λ
- Resolve $\frac{x^2}{(x^2+4)(x+2)}$ into partial fractions
 - Prove that ${}^nC_0 + {}^nC_1 + {}^nC_2 + \dots + {}^nC_n = 2^n$
- Expand $(1-2x)^{\frac{1}{2}}$ to four terms and apply it to evaluate $(0.8)^{\frac{1}{2}}$ correct to three places of decimal
- If $\sin \alpha = \frac{4}{5}$ and $\sin \beta = \frac{12}{13}$, where $\frac{\pi}{2} < \alpha < \pi$ and $\frac{\pi}{2} < \beta < \pi$. Find (i) $\cos(\alpha + \beta)$ (ii) $\sin(\alpha - \beta)$
- Show that $R = \frac{a^2b^2c^2}{4\Delta}$
 - Solve the equation $\sqrt{3} \tan x - \sec x - 1 = 0$ for its general solution

Mechanical Math 111st Year Past Papers

Huangqi Zhang



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Mechanical Math 111st Year Past Papers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating 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 "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 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 spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling 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 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 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 brilliant 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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