

$$\sin \alpha = \frac{BC}{c} = \frac{a}{c};$$

$$\sin 2\alpha = 2 \sin \alpha \cos \alpha;$$

MATHEMATICS OPTIONAL

TEST SCHEDULE 2022

The background image shows a chalkboard filled with mathematical content. On the left, there are handwritten formulas: $\cot \alpha = \frac{c}{b} = \frac{a}{b}$, $\alpha^\circ = \frac{180}{\pi} \alpha$, $\alpha = \frac{\pi}{180} \alpha^\circ$, $360^\circ = 2\pi$, and $180^\circ = \pi$. In the center, there are more formulas: $\sin^2 \alpha + \cos^2 \alpha = 1$, $\frac{\sin \alpha}{\cos \alpha} = \tan \alpha$, $\sin \alpha \cdot \csc \alpha = 1$, $\frac{\cos \alpha}{\sin \alpha} = \cot \alpha$, and $\tan \varphi = \pm a \left(\frac{1}{\Delta} \right)^{1/2}$. On the right, there is a graph of a sine wave $u = A \sin(\omega t + \varphi)$ with amplitude A and period $\frac{2\pi}{\omega}$. Below the sine wave is the formula $u = a \sin \omega t + b \cos \omega t$. At the bottom left, there is a graph of a parabola $y = ax^2 + bx + c$ with $\Delta > 0$ and roots A and B .



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MATHEMATICS - TEST SERIES - SCHEDULE - 2022

REPEATERS

TEST NO.	DATE	TOPICS
1	30/6/2022	Paper 1: Section A
2	13/7/2022	Paper 1: Section B
3	27/7/2022	Paper 2: Section A
4	10/8/2022	Paper 2: Section B
5	17/8/2022	Paper 1 full
6	24/8/2022	Paper 2 full
7	8/9/2022	Paper 1 and Paper 2

Paper 1	Paper 2
Section A Linear Algebra Calculus Solid geometry or 3D	Section A Modern Algebra Real Analysis Complex analysis Linear programming problems
Section B Ordinary Differential Equations (ODE) Statics and Dynamics Vector Analysis	Section B Partial Differential Equations(PDE) Numerical Analysis Mechanics and Hydrodynamics



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Features:

1. Sectional Tests, helps in strengthening the topics and time management while writing the paper. Focused part in these tests is the way of presentation of your solution in the test.
2. Full length paper, is the depiction of actual UPSC Mathematics paper.
3. Test discussion will be held after the test and date and time will be informed accordingly. For Physics test detailed solution will be provided instead of discussion.

Schedule	:	Updated
Mode	:	Offline cum Online
Orientation	:	None
Evaluation	:	Available
No. of Tests	:	07
Timings	:	9 am to 12 pm.
Begins on	:	30.06.2022
Fees	:	Rs.6,500/-

- **Evaluation Time frame is 10 days maximum from the date of submission.**
- **Answer Sheets Must be submitted within 3-5days from the date of test as on schedule.**
- **We Appreciate Aspirants who submitted their answer sheets on the same day at the most.**
- **Late submission of Answer sheets will not be strictly entertained.**
- **Detailed Answer Key will be provided in Pdf format.**
- **Question Paper will be mailed to the students on the date of the Test for Online Students.**
- **Individual feedback will be given for each test.**