

Marks, March, 100; June, 200.
Plane Trigonometry (Todhunter and lectures or printed notes)
 —Complete use of Logarithms and natural tables—Solution of triangles. Heights and distances, Chapter XV, § 239-241. Properties of triangles, Chapter XIV., omitting § 253-4. Inverse ratios without examples Chapter XVIII, § 263. December.

Mensuration (lectures or notes to be printed)—Construction of ratios as $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$, $\frac{1}{\sqrt{7}}$, $\frac{\sqrt{3}}{2}$, $\sqrt{\frac{2}{3}}$ &c., and combinations of these. Rectilineal and circular areas and perimeters and combinations of these. Area of ellipse. Area of a parabola intercepted by any chord, proved geometrically. Polygonal approximation to the areas of curves. Simpson's rule. Weddle's approximation. December.

Marks (*Trigonometry and Mensuration*), Dec., 100; March, June, 250.

**Spherical Trigonometry (Todhunter)*. Chaps. I, II, III, IV, omitting § 38, 39, 42, 50, 51, 53, to end of Chapter V. Solution of right angled triangle. Chap. VI. Solution of oblique angled triangles. Chap. VIII, omit § 98 to end.

Co-ordinate geometry, introduced only by lectures.

Marks, 150.

Statics (Todhunter's Mechanics for beginners.)

Chapter I, II.—Omitting proof of parallelogram of forces § 45 to end of Chapter.

Chapter III, IV, V.—Omitting § 78 to end.

Explanatory notes in lieu of Chapter VI, on the equilibrium of a body and the method of working examples. Constrained body and the principle of the lever.

Chapter VII.—§ 99; Statement of 100; § 102, 6, March.

Centre of parallel forces. Chapter VIII to § 113. Short notes on § 114, 15.

Formula $x = \frac{\sum (Px)}{\sum (P)}$. § 116-120

Centre of gravity, Chapter IX to § 135. Trapezoid, alternative proof for § 136. Results only for pyramid and cone

§ 137-140. § 141-3. Formula $\bar{x} = \frac{\sum (mx)}{\sum (m)}$, § 144-6, compared with § 114-5.

Properties of the centre of gravity, Chapter X, omitting

*NOTE.—This subject is obligatory for instruction. Marks counted will assist towards place "Pass," "Distinguished," "Honours," but if below minimum the subjects will be omitted from qualification for the same.

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