

Chapter XVIII. Certain forces may be omitted from the equation of Virtual Moments.

Friction. Co-efficient of friction. Angle of friction. Limiting angle of resistance. Chapter XIX; omitting § 255-7 and § 260.

Easy problems on the above course.

Marks, March, 100; June, 400.

Notes and Recitations.....50.

3RD CLASS.

VOLUNTARY, 2,000 MARKS.

Qualification,—one-third for any section.

SECTION F.

Euclid XI, to Prop: 21.

Marks, December, 200.

SECTION G.

Algebra (Todhunter.) Theory of quadratics and quadratic expressions, Chapter XXII. Simultaneous equations involving quadratics, XXIII, XXIV. Imaginary expressions, Ratio, Proportion and Variation; practical examples only, XXV to XXVIII. Progressions, including the sum of the squares, cubes, &c., of the first n natural numbers, and thence the summation of series having the last term rational and algebraic, XXX to XXXII, omitting § 456-8. Mathematical Induction, XXXIII. Permutations and combinations, XXXIV, omitting § 500. Binomial theorem, proof for positive integral exponent only, XXXV to XXXVI, omitting § 516-20, 523-25, and only reading over § 527. Logarithms, XXXVIII, XXXIX, omitting § 549, and only reading over § 551. Convergency of series, only reading over the investigations and applying them to examples, XL. Interest, XLI. Annuities, XLII, omitting § 589, 90, 97-99. Continued fractions, XLIV, XLV, omitting § 604-11 and 613-22. Indeterminate equations, XLVI to § 628. Partial fractions and indeterminate coefficients, XLVIII, with notes on partial fractions involving multiple and irrational roots. Summation of series, L, omitting § 661-4; 666, 670-1. Summation by finite differences without proof (Notes). Inequalities, LI to § 680. Note result of § 681.

Marks, December, 200.

SECTION H.

Plane Trigonometry (Todhunter.) I to XVI, omitting § 180—210, but reading them over for comparison with the