IV.—MATHEMATICS.

- (A) Algebra, Geometry and Trigonometry as in Grade XII.
- (B) Plane and Solid Analytical Geometry, including the Calculus, as in Murray's Infinitesimal Calculus.

V.—Sciences.

Any one of the following:

PHYSICS.

- Physics', A knowledge of General Physics, as in "A Textbook of by Watson (unstarred sections), or any equivalent.
- experimental work of the candidate, duly certified by the Instructor, versity grade (e. g. as in Ames and Bliss' "Manual of Experiments in Physics'). In cases where the candidate cannot present by a practical laboratory examination.
- results Obtained by the application of elementary mathematics of physical problems; such as might be obtained during a course years. The grade of work such as is given in Preston's "Theory of Light," Preston's "Theory of Light," and J. J. Thompson's of Electricity and Magnetism," or their equivalents.

CHEMISTRY.

- Chemistry, or an equivalent, with laboratory work in General Rases, acids, and salts, and at least five or six quantitative extended aboratory work may be partially tested by requiring the health work.
- Carbon', Organic Chemistry as in Remsen's "Compounds of which should include the preparation of at least 20 typical carbon The laboratory work may be tested partly by ques-