

the equivalent examinations of the College Entrance Examination Board.

B. Examination in four subjects.

1. Subjects. A candidate who presents evidence that he has satisfactorily completed an "approved secondary school course," shall offer himself for examination in the four subjects named below. A satisfactory record in these examinations shall admit to Harvard College without conditions: (a) English, (b) Latin, or for candidates for the degree of S.B., French or German, (c) Mathematics, or Science (Physics or Chemistry), (d) any subject (not already selected under (b) or (c) from the following list: Greek, French, German, History, Mathematics, Chemistry, Physics.

2. The examination papers. (a) The preparation presupposed by the examination papers in the several subjects shall not be less than is ordinarily necessary for the present elementary examinations. The papers shall contain a sufficient number of alternative questions, and shall be so framed as to permit variety in the methods of school instruction. They shall also include advanced questions, thus permitting each student to reveal the full amount and the quality of his attainment. In any subject offered for examination which the candidate has pursued to an advanced grade he must present evidence of that grade of attainment. The papers shall not, however, presuppose a greater length of preparation than is ordinarily required for the present Harvard examinations. (b) Time of examinations. The four examinations must be taken at one time, in either June or September. (c) Judging the examination books. A copy of the candidate's school record shall be given to the readers of the examinations. In judging the books the examiner shall submit a full statement of his opinion of each book. In addition, at the option of the examiner, a grade may be given.

3. A satisfactory record. A "satisfactory record" shall not be construed to require that a candidate attain distinction in all four subjects, but shall mean that in the judgment of the Committee on Admission the candidate's examination record as a whole, when viewed as the basis for a general estimate of his quality, is such as to make his admission to Harvard College advisable.

**THE NEW YORK ZOOLOGICAL SOCIETY**

THE seventeenth annual meeting of the New York Zoological Society was held at the Hotel Waldorf-Astoria, January 10, 1911, at 8.30 o'clock p.m. Mr. Henry Fairfield Osborn,

president of the society, presided and Mr. Madison Grant, the chairman of the executive committee, laid before the meeting the report of that committee for the year 1910. Colonel C. J. Jones gave the first public exhibition of a series of moving pictures showing the roping and capture of living wild animals in British East Africa, including lions, rhinoceroses and various antelopes, and Mr. Roy C. Andrews showed a series of pictures taken during the past season of the capture of whales in Japanese waters.

The report of the executive committee covered the following matters:

During the year \$12,848 have been expended for the purchase of animals, chiefly for the purpose of strengthening the collections in general, from a zoological point of view, rather than for the purchase of costly special features. As a result of this policy, the collections, as a whole, are to-day stronger in rare species, and also in number of individuals, than at any previous period. The health of the collections at the park and the aquarium has been maintained at a high standard throughout the year, and there have been few losses of importance.

*Administration Building.*—The administration building was completed and thrown open to the use of the members on November 20, 1910. It provides accommodations for the members of the society, and it is hoped that members and their guests will make full use of the opportunities afforded.

*New Buildings.*—The following new structures are under way at the present time: Ten additional bear dens and cages, eagles and vultures aviary, and a winter house for tropical birds of prey. Plans for a zebra house have been completed, and the contract, it is hoped, will be awarded during the winter.

*National Collection of Heads and Horns.*—The National Collection of Heads and Horns has been greatly increased during the year and now contains 688 specimens. A few of the most notable additions are: Head of square-mouthed rhinoceros from Col. Theodore Roosevelt; bongo, from Mr. James L. Clark; New Brunswick moose, from Mr.

Edwin C. Kent, and the following heads from Mr. H. Casimir de Rham: Karelin sheep, Turkestan sheep, Astor markhor, two Himalayan ibex, Quchim buffalo, Newfoundland caribou, musk ox and sable antelope.

*Library.*—The administration building will also contain the library, which now numbers 1,378 volumes. A fund of \$2,000 was provided by two of the friends of the society for this purpose.

*Gifts.*—Among the most notable gifts have been a remarkable series of arctic animals from Mr. Paul J. Rainey, as follows: Six musk ox, two walrus, two polar bears, one blue fox.

*Pheasant Expedition.*—The New York Zoological Society expedition for pheasants is now in Siam, and is expected to return to New York some time during the summer of 1911. The expedition has been successful in securing specimens, living and dead, of nearly all the pheasants in the districts visited.

*Aquarium.*—The New York Aquarium has, in its present building, nearly reached the limit of its capacity both for its collections and for visitors. The enormous attendance makes it necessary to provide a larger and more modern building, and several studies of plans for this purpose have been made. The city will be asked to provide the necessary funds for the new aquarium.

#### SCIENTIFIC NOTES AND NEWS

SIR FRANCIS GALTON, eminent for his contributions to geography, meteorology, biology, anthropology and psychology, died on January 18, at the age of eighty-eight years.

At the annual meeting of the trustees of the Carnegie Institution of Washington, Dr. Simon Flexner, of the Rockefeller Institute of Medical Research, Mr. Robert S. Brookings, of St. Louis, and Dr. Henry Pickering Walcott, of Boston, were elected to membership in the board.

SIR JOHN MURRAY will give a memorial address on "The Life and Scientific Works of Alexander Agassiz," at Sanders Theater, Har-

vard University, on Tuesday evening, February 14.

THE next Faraday lecture of the Chemical Society of London is to be given on June 14 by Professor Theodore W. Richards, of Harvard University, in Faraday's lecture-room at the Royal Institution on Albemarle Street, London.

DR. JACQUES LOEB, of the Rockefeller Institute for Medical Research, has been elected an associate of the Royal Academy of Science at Belgium, in the section of natural science; and also an honorary foreign member of the Academy of Medicine of Belgium.

DR. ALĚS HRDLÍČKA has been made a corresponding member of the Academy of Sciences, Prague.

SIR DAVID GILL has been elected a foreign member of the Swedish Royal Academy of Sciences, Stockholm.

M. EDOUARD BRANLY has been elected a member of the Paris Academy of Sciences in the section of chemistry. He received thirty votes, twenty-eight votes being cast for Madame Curie.

DR. DAVID FERRIER, F.R.S., emeritus professor of neuropathology in King's College, London, has been knighted.

PROFESSOR M. E. COOLEY, dean of the department of engineering of the University of Michigan, was given the degree of doctor of engineering by the University of Nebraska on January 18.

THE Geological Society of London will this year award its medals and funds as follows: The Wollaston Medal to Professor Waldemar C. Brögger, Sc.D.; the Murchison Medal to Mr. Richard H. Tiddeman, M.A.; the Lyell Medal to Dr. Francis A. Bather, M.A., and Dr. Arthur W. Rowe; the Bigsby Medal to Dr. O. Abel; the Wollaston Fund to Professor O. T. Jones, M.A.; the Murchison Fund to Mr. Edgar S. Cobbold; the Lyell Fund to Professor Charles G. Cullis, D.Sc., and Mr. John F. N. Green.

ADDITIONAL grants have been made to Professor T. W. Richards and to Professor G. P. Baxter, of Harvard University, of \$2,500 and