Lake, St. John's (Geology); Melsome, Queens' (Physiology); Rendle, St. John's (Botany); Turpin, St. John's (Chemistry). No women were placed in the first class. Mr. Lake, of St. John's, whose name appears in the above list, has been elected to the first Harkness Scholarship for

Geology and Palæontology. Dr. William Hunter, M.D., F.R.S.Edin., has been elected

the first John Lucas Walker Student in Pathology.

The degree of Doctor in Science has been conferred on Mr. James Ward, of Trinity College, and Prof. F. O. Bower, of Trinity College and Glasgow University.

In consideration of this year being the two hundredth anni-versary of the publication of Newton's "Principia," the Chancellor's Medal is to be given for an English poem on Isaac Newton.

The botanical teachers in the University have made a pressing appeal for the erection of a class-room for practical microscopical botany.

The Examiners for the Mathematical Tripos, Part II., have issued the following class list :

Class I. Division 1: C. W. C. Barlow, and Bryan, Peter-house; Dixon, Trinity; Fletcher, St. John's; Platts, Trinity. Division 2: Coates, Queens'; F. W. Hill, St. John's. Division 3: Clark, Pembroke; H. G. Dawson, Christ's. Class II. Division 1: Askwith, Trinity. Division 2: Johnston, Peterhouse: McAulay, Cains, Nicolls, Peterhouse, Division 2:

Peterhouse; McAulay, Caius; Nicolls, Peterhouse. Division 3: Tate, St. John's.

Class III. Division I : Dickinson, Trinity. The appointment of a Demonstrator of Pathology has been

approved. The proposals regarding the teaching of geography and the appointment of a University Lecturer in Geography have been confirmed.

The modified proposals to build new plant-houses in the Botanie Garden have been approved. A small research labora-tory is to be built in convexion with them.

At the annual election at St. John's College, on June 18, the following awards in Natural Science and Mathematics were made :-

Matter -- Foundation Scholarships: -- Science: Rendle, £50; d'Albu-Foundation Scholarships: -- Science: Rendle, £50; d'Albu-querque, £60; Groom, £50--Mathematics: Norris, £40; Varley, £50; H. H. Harris, £50; Rudd, £40. Scholarships prolonged or increased in value: -- Science: Rolleston, £80; Shore, £60; Seward, £40; Harris, W., £50; Lake, £80--Mathematics: Fletcher, £80; Hill, £60; Tate, £40; Orr, £80; Sampson, £80: Baker, £100: Elux, £100;

Sampson, £80; Baker, £100; Flux, £100, Exhibitions:—Science: Grabham, d'Albuquerque, Baily, Hankin, Shaw—Mathematics: Orr, Sampson, Carlisle, Millard, Cooke, Humphries, Shawcross, Palmer. Proper Sizarships:— Science : Kellett-Mathematics : Box, Brown, Lawrenson ; Shawcross, Palmer. Hughes Prizes :- Science : Lake ; Mathe-matics : Baker and Flux, equal. Wright Prizes :- Science : Turpin, d'Albuquerque ; Mathematics : Orr, Cooke. Hockin Prize (for Physics, and in particular Electricity): Turpin. Herschel Prize (for Astronomy): Flux. Hutchinson Student-ship (for Sanskrit): Strong.

Among the distinguished persons upon whom honorary degrees were conferred on June 20 was Prof. Asa Gray, degrees were conferred on june 20 was Prof. As Cray, Professor of Natural History and Keeper of the University Herbarium and Botanical Library, Harvard University, author of the "Elements of Botany" (1836), the "Botanical Text-Book" (1842, ed. 6, 1880), "Darwiniana" (1876), "Flora of North America" (1878), &c., &c. We append the text of the speech delivered by the Public Orator, Dr. Sandys, in presenting him for the degrees. for the degree :--

Iuvat tandem pervenire ad historiae naturalis professorem Harvardianum, botanicorum transmarinorum facile principem. Annorum quinquaginta intra spatium de scientia sua pulcherrima quot libros, eruditione quam ampla, genere scribendi quam admirabili composuit. Quotiens oceanum transiit ut Europae herbaria diligentius perscrutaretur, virosque in sua provincia primarios melius cognosceret. In aliorum laboribus examinandis, recensendis, nonnunquam leviter corrigendis, iudicem quam perspicacem, quam candidum, quam urbanum sese praebuit. Quanta alacritate olim inter populares suos occidentales Darwini nostri solem orientem primus omnium salutavit, arbitratus idem doctrinam illam de formarum variarum origine causam aliquam primam postulare, et fidei de numine quodam, quod omnia creaverit gubernetque, esse consentaneum. Viro tanto utinam contingat ut opus illud ingens quod Americae Borealis Florae

accuratius describendae olim dedicavit, ad exitum felicem aliquando perducat. Illum interim, qui scientiam tam pulchram suis laboribus, sua vita, tam diu illustravit, usque canam ad senectutem, ut poeta noster ait, 'vitae innocentis candidum florem gerens,'—illum, inquam, his saltem laudis flosculis, hac saltem honoris corolla, libenter coronamus. Plurimos in annos Academiae coronam illustriorem reddat

Florae sacerdos venerabilis, ASA GRAY.

SCIENTIFIC SERIALS.

THE Fournal of Botany for May contains the following articles :--Angolan Scitamineæ, by Mr. H. N. Ridley.--Forms and allies of Ranunculus Flammula, by Mr. Chas. Bailey.--Notes on British Characeæ for 1886, by Messrs. H. and J. Groves.—The progress of botany in Japan, by Mr. F. V. Dickins.—Conclusion of the Rev. Mr. Purchas's list of plants for South Derbyshire.

In the number for June Mr. E. M. Holmes describes and figures two species of seaweed new to Britain, Ectocarpus simplex and E. insignis.—There are also papers on Queensland ferns, by Baron von Müller and Mr. J. G. Baker; on the genus Potamogeton, by Mr. A. Fryer; on plants of Northern Scot-land, by Mr. F. J. Hanbury and Rev. E. S. Marshall; on Chinese ferns, by Mr. J. G. Baker; and on Australian species of Potamogeton of Potamogeton, by Mr. A. Bennett.

SOCIETIES AND ACADEMIES.

LONDON.

Royal Society, June 16.—"Abstract of Investigations upon Rabies." By G. F. Dowdeswell.

The first experiments made by inoculations with the saliva of rabid street dogs, during the outbreak of the disease in 1885, all failed to produce infection, thus confirming the reputed uncertainty of the result of the bite of a rabid animal.

Subsequently, adopting the methods recently described by M. Pasteur, it was found :-

(I) That the virus of rabies in the lower animals and of hydrophobia in man resides in the cerebro-spinal substance and in the peripheral nerves, and is not confined to the salivary secretion, as previously believed, nor is even as constantly present or as actively virulent in it as it is in the nervous tissues.

(2) That inoculation of a portion of the nervous tissue from a rabid animal upon the brain of another by trephining produces infective rabies or lyssa, much more certainly, and with a far shorter incubation period, than by subcutaneous inoculation of the same substance; but that the disease is identically the same in both cases.

(3) That the virulence of "street rabies" is usually increased and ultimately becomes remarkably constant by passing through a series of rabbits, in which animals the symptoms are somewhat different from those in others, and which are generally regarded as typical, being essentially paralytic, but that paresis to some extent is always present in this disease in dogs and others of the lower animals, and that there is no constant distinction between the so-termed "dumb" and "furious" rabies in the latter animal, the difference consisting in the preponderance of the paralytic or other symptoms.

(4) That the tissues of an infected animal do not themselves usually become infective till towards the close of the incubation period

(5) That of a large number of drugs that were tried, both germicides and those which act specifically upon the cerebrospinal system, including those most esteemed for the treatment of rabies and hydrophobia, none have any material effect in modifying the result of infection in the rabbit.

(6) Lastly, that with respect to the methods of protection against infection by a series of inoculations with modified virus, as advocated and practised by M. Pasteur, these are unsuccessful with the rabbit, and that his recent "rapid" or "intensive" method of inoculation is liable itself to produce infection; and that with the dog the natural refractoriness of this animal to infection with rabies by any method of inoculation, is so great, that it is exceedingly difficult to determine the effect of any remedial or prophylactic measures upon it ; and that with man the statistics of the treatment must determine its effects.