Academies and Societies.

Indian Academy of Sciences:

March 1936. SECTION A.—H. GUPTA: *On the Numbers of Ward and Bernoulli.* R. ANANTHAKRISHNAN: *Polarisation of the Raman Bands of Water and Deuterium Oxide.* The influence of temperature and the observed polarisation results could be satisfactorily explained by postulating that the liquid state is composed of a large percentage of polymerised molecules (dihydrol) with frequencies 3220 and 3430, and a smaller percentage of non-polymerised molecules with frequencies 3430 and 3600. D. R. DHINGRA, H. L. UPPAL AND K. VENKATARAMAN: *Antiseptics and Anthelminthics. Part II.—A Synthesis of 6-Benzyl-7-hydroxyflavone and 6-n-Hexyl-7-hydroxyflavone.* R. S. KRISHNAN: *Scattering of Light in Optical Glasses.*—The intensity and state of polarisation of light scattered transversely by a series of seventeen glasses of optical quality has been studied with the incident light in different states of polarisation. It is concluded that there exist molecular aggregates of size not small compared with the wavelength of light. B. L. GULATEE: *Gravity Formulæ in Geodesy; Their Precision and Interpretation.* A number of important gravity formulæ are discussed. N. W. HIRWE and M. R. JAMBHEKAR. *Derivatives of Salicylic Acid. Part IX.—Stability of the Sulphonic Acid Group in the 4-Sulphosalicylic Acid. Part I.—Nitration of 4-Sulphosalicylic Acid.*—Sulphonic acid group outside the directing influences of the –OH and –COOH groups cannot be substituted by the nitro group as in 3- or 5-sulphosalicylic acids. B. SUNDARA RAMA RAO: *Studies on the Anisotropy of the Optical Polarisation Field in Liquids. Part I and Part II.*—From a knowledge of the molecular refractivity at different temperatures, the anisotropic constants of the optical polarisation field are calculated in CS_2, C_6H_6 and C_6H_{14}. The polarisation field becomes more and more isotropic with increasing temperature. S. SIDDIQUI: *The Alkaloids of Holarrhena Anti-Dysenterica. Part IV.—The Occurrence of Two Further New Bases in the Bark of Indian Holarrhena and Their Relationship to Conessine and Holarrhimine.* S. SIDDIQUI AND R. H. SIDDIQUI: *The Alkaloids of Holarrhena Anti-Dysenterica. Part V.—Studies in Holarrhimine.*—Methylation, benzoylation and acetylation have been studied. N. W. HIRWE AND M. R. JAMBHEKAR: *Derivatives of Salicylic Acid. Part X.—Stability of Sulphonic Acid Group in the 4-Sulphosalicylic Acid. Part II.—Bromination of 4-Sulphosalicylic Acid.* H. J. TAYLOR AND V. D. DABHOLKAR: *The Tracks of the α-Particles of Thorium and its Products.*—Radiothorium atoms introduced into a photographic emulsion disintegrate *in situ*, emitting five α-particles in succession. In this way "stars" are produced, consisting of five tracks radiating from a point. E. GORA: *On the Theory of Pressure Broadening of Spectral Lines.*

March 1936. SECTION B.—M. K. SUBRAHMANIAM AND R. GOPALA AIYAR: *On the Possible Effect of the Environment on the Cytoplasmic Inclusions in the Oocytes and Oogonia of* Dasychone cingulata, Salmacis bicolor *and* Clibanarius olivaceus.—The remarkable diversity of results obtained by workers on the Cytoplasmic phenomena during Oogenesis in the same animal, is due to variations in the environment (1) seasonal and (2) geographical. P. M. GLOVER AND K. C. CHATTERJEE: *A Preliminary Note on the Bionomics and Economic Importance of* Microbracon Hebetor *Say, A* Braconid *New to North India.*—For the first time. *M. Hebetor* Say is recorded in Northern India and a preliminary description of the behaviour, and economic importance with particular reference to lac cultivation is given. I. FROILANO DE MELLO AND EMERCIANO DIAS: Plasmodium narayani *N.Sp., Parasite of the Fish Otter* Lutra lutra.—A plasmodid of a fish otter, found only in the blood and lung smears, has been recorded for the first time. J. S. PATEL, C. M. JOHN AND C. R. SESHADRI: *The Inheritance of Characters in the Groundnut,* Arachis hypogæa.—An attempt at a genetic analysis of the several characters—chlorophyll deficiency, abnormality, habit, branching, duration, hairiness, anthocyanin pigment in the plant and four seed-coat colours—of the groundnut, has been reported. Thirteen genetical factors are assumed for interpreting the results. M. B. MIRZA: *A New Species of the Nematode Genus* Dermatoxys *from* Lepus ruficaudatus.—The species described differs from the known ones of the genus *Dermatoxys* Schneider, 1866, necessitating the creation of a new species. B. N. SINGH AND G. P. KAPOOR: *Plant Growth in Relation to Partial Pressures of Oxygen.*—The dry matter production at any stage during the growth is the resultant of two variables: (1) the age factor and (2) the factor for oxygen. B. M. JOHRI: *Contribution to the Life-History of* Cedrus deodara *Loud.*—The development of the microspores and the pollen grains of this interesting Indian Conifer has been described. A. SREENIVASAN: *Investigations on the Role of Organic Matter in Plant Nutrition.—Part XI.—Effect of Manuring on the Growth and Intake of Silicon by Dry and Wet Cultivated Rice.*—The beneficial effect of silicate fertilisation in field practice and the rôle of silicon in the nutrition of the rice plant have been discussed. YAJNAVALKYA BHARADWAJA: *On Two Forms of* Hydrurus *Ag. from Kashmir.*—Two forms of Chrysophyceæ have been recorded and described.

The National Academy of Sciences, India:

March 25, 1936.—MATA PRASAD AND B. V. MOHILE: *The Photo-Reduction of Ferric Chloride in Alcoholic Solutions in the Light of a Quartz Mercury-Vapour Lamp.* M. L. ROONWAL: *Sexual Dimorphism and Post-Embryonic Growth in* Dialeurodes dissimilis *Quaint, and Baker (Homoptera, Aleurodidea).* M. N. SAHA and A. N. TANDON: *A New Model Demountable Vacuum Furnace.* S. C. VERMA: *Studies in the Family Bucephalidæ* (Gasterostomata).—*Part II.—Description of Two New Species.* JAGRAJ BEHARI LAL: *Chemical Examination of the Fruit of* Physalis Peruviana *or Cape Goose Berry.*

Indian Chemical Society:

March 24, 1936.—DINES CHANDRA SEN: *Studies on Cyclic Thioketones. Part I.—Synthesis of Non-Polymerised Thiocyclohexanone, Thiocyclopentanone and their Derivatives.* N. M. BOSE AND S. R. MAITRA:

Investigation on the Effects of Humidity and High Temperature on the NH_2-content of Different Samples of Rice. DINES CHANDRA SEN: *Studies in the Camphor Series.—Part III.*

Indian Botanical Society:

April 1936.—A. C. JOSHI: *A Contribution to the Embryology and Cytology of* Rivina humilis *Linn.* V. S. RAO: *A Contribution to the Morphology of* Antigonon leptopus *Hook. and Arn.* B. S. NIGAM: *Physiology of Zonation.—Effect of Light and Temperature on Zonation in* Acrothecium lunatum *Wakker.* EDWARD BARNES: *Two Notes on South Indian Strigas.* K. P. RODE: *A Silicified Dicotyledonous Wood* Dryoxylon mohgaœnse *sp. nov. from the Deccan Intertappean Beds of India.* G. N. RANGASWAMI AYYANGAR AND V. PANDURANGA RAO: Sorghum popyrascens *Stapf.* D. P. MULLAN: *On the Seed Structure and Germination of* Acanthus ilicifolius *Linn.* MUKAT BEHARI RAIZADA: *Recently Introduced or Otherwise Imperfectly Known Plants from the Upper Gangetic Plain.*

Meteorological Office Colloquium, Poona:

March 10, 1936.—Mr. A. K. ROY summarised Col. Gold's Presidential address on "Fronts and Occlusions", delivered before the Royal Meteorological Society in January 1935.

University and Educational Intelligence.

Aligarh Muslim University:

The Degree of Doctor of Laws (*Honoris causa*) was conferred on His Excellency Lord Willingdon, Viceroy and Governor-General of India and Lord Rector of the University, at the Special Convocation, held on 22nd March. The Chancellor, H. E. H. the Nizam of Hyderabad, presided.

H. E. H. the Nizam announced a donation of Rs. 10,000 for the construction of a Pavilion in commemoration of Lord Willingdon's visit.

It is understood that Sir Azizuddin Ahmed donated Rs. 10,000 to the Aligarh Muslim University. A similar donation has been made by the Raja of Pirpur.

The Andhra University:

Mr. C. R. Reddy, M.L.C., was elected Vice-Chancellor of the University. The election was held on 28th March.

University of Madras:

Award of Research Degrees.—

D.Sc.—Mr. S. Gopalakrishnamurthy, M.A. (Thesis—"Atomic Energy States of Tellurium").

M.Sc.—Mr. N. Kesava Panikkar, B.A. (Hons.) (Thesis—"Studies in South Indian Brackish Water Actinarius"); Mr. P. K. Sesha Aiyer, B.Sc. (Thesis—"Absorption and Fluorescence Spectra of Organic Compounds"); Mr. T. K. Srinivasan, B.Sc. (Thesis—"Action of Sulphuric acid on Cotarnine; Action of Bromine on Narcosine, etc."); Mr. T. Varahalu, B.A. (Thesis—"Physical and Chemical Studies on Sugarcane Jaggery").

University of Mysore:

1. *Personnel.*—Dr. E. P. Metcalfe, D.Sc., F.Inst.P., Vice-Chancellor, has been granted leave for 27 days from the 5th March 1936, with permission to affix thereto the summer vacation, and Mr. N. S. Subba Rao, M.A., BAR-AT-LAW, Director of Public Instruction in Mysore, has been appointed to be in charge of the office of the Vice-Chancellor, in addition to his own.

2. *Special Convocation.*—A special Convocation of the University was held at Mysore on the 25th March 1936, for conferring the Honorary Degree of Doctor of Laws, on Rajasabhabhushana Diwan Bahadur Sir K. P. Puttanna Chetty, Kt., C.I.E., Retired Member of Council, His Highness the Chancellor presiding.

3. *Recognition of Examinations.*—The University of Calcutta has recognised the S. S. L. C. Examination of Mysore as equivalent to the Matriculation Examination of that University, subject to the condition that the holders of the certificate must be declared eligible by the University of Mysore for joining the University course before they are allowed to join a college under the Calcutta University and that they must also conform to the usual rules of migration.

4. *Election to the Mysore Medical Council.*—In the election held for returning a member from the Faculty of Medicine of this University to the Mysore Medical Council, Mr. B. K. Narayana Rao, B.A., M.B.C.M., M.R.C.S., D.P.H., D.O., Principal, Medical School, Bangalore, secured the highest number of votes.

5. *Meeting of the Senate.*—The Annual Meeting of the Senate was held on the 26th March 1936, at which the annual report and accounts for 1934–35 were adopted and the budget estimates for 1936–37 considered and passed, providing for a grant from the Government of Rs. 10.36 lakhs. A proposal intended to introduce changes in the mode of election to University authorities were vetoed.

Among other decisions arrived at, mention may be made of the following:—

(1) That candidates successful in the M.A. and M.Sc. degree examinations should be classed, the minimum for a First Class being 60% and that for a Second Class being 50%.

(2) That the Government of Mysore be requested to move the Government of India that in recommending candidates for appointment in the Secretariat and other institutions connected with the League of Nations in future, due consideration be given to deserving graduates of this University also, since so far no graduate of this University has been made the recipient of the honour of serving under the League of Nations.

Nagpur University:

At a meeting of the Executive Council of the Nagpur University, held during the last week of March, Sir Hari Singh Gour, Vice-Chancellor, who will be participating in the centenary celebration of the London University in July next, was granted leave of absence for four months. Subject to His Excellency the Chancellor's approval, Col. K. V. Kukday was appointed