

We acknowledge with thanks receipt of the following :—

"The Agricultural Gazette of New South Wales," Vol. XLVII, No. 12, December 1936.

"Indian Journal of Agricultural Science," Vol. VI, Part V, October 1936.

"Monthly Bulletin of Agricultural Science and Practice," Vol. 27, No. 10, October 1936.

"Journal of Agriculture and Livestock in India," Vol. VI, Part VI, November 1936.

"The Philippine Agriculturist," Vol. XXV, No. 7, December 1936.

"Journal of the Royal Society of Arts," Vol. LXXXIV, Nos. 4383-4388.

"The Calcutta Review," Vol. 61, No. 3, December 1936.

"Chemical Age," Vol. 35, Nos. 908-912.

"Journal of Chemical Physics," Vol. 4, No. 12, December 1936.

"Berichte der Deutschen Chemischen Gesellschaft," Vol. 69, No. 12,

"Russian Journal of General Chemistry," Vol. VI, No. 9.

"Journal de Chimie Physique," Vol. 33, No. 11.

"Experimental Station Record," Vol. 75, No. 5, November 1936.

"Transactions of the Faraday Society," Vol. XXXII, Part 12, December 1936.

"Indian Forester," Vol. LXIII, No. 1, January 1937.

"Indian Forest Records," Vol. II, No. 1, Entomology: A Survey of the Damage to Teak Timber by the Beehole Borer, throughout the Main Teak-bearing Forests of Burma.

"Forschungen und Fortschritte," Vol. 12, Nos. 34, 35/36.

Government of India Publications :—

"Monthly statistics of production of certain selected industries of India" (Department of Commercial Intelligence and Statistics). No. 6, September 1936.

"The New Statistical Tables Based upon Fisher's t." By M. Vaidyanathan, Bulletin No. 13.

"Indian Trade Journal," Vol. CXXXIII, Nos. 1590-1594.

"Annual Report of the Public Health Com-

missioner for 1934," with the Government of India Vol. I.

"Marriage Hygiene," Vol. III, No. 2, November 1936.

"Scripta Mathematica," Vol. IV, No. 2, April 1936.

"Journal of the Indian Mathematical Society," Vol. II, No. 4, 1936.

"The Calcutta Medical Journal," Vol. 31, No. 6, December 1936.

"Medico-Surgical Suggestions," Vol. 5, No. 12, December 1936.

"Review of Applied Mycology," Vol. 15, No. 11, November 1936.

"Carnegie Institution of Washington, News Service Bulletin," Vol. IV, No. 9.

"Report of the Fuel Research Board for the year ended 31st March 1936."

"Annual Report on the Working of the Tea Districts Emigrant Labour Act (XXII of 1932) for the year ending 30th September 1935."

"Agriculture and Animal Husbandry in India," 1933-34 and 1934-35, Part I, 'Crop Production.'

"Zoologisch Botanischen Gesellschaft in Wien", Bands—LXXIII, LXXIV/LXXV, LXXVI, Hefts 1-4, LXXVII, Hefts 1-4, LXXVIII, Hefts 1-4, LXXIX, Hefts 1-4, LXXX, Hefts 3-4, LXXXI, Hefts 1-4, LXXXII, Hefts 1-4, LXXXIII, Hefts 1-4, LXXXIV, Hefts 1-4.

"Journal of the Bombay Natural History Society," Vol. 39, No. 1.

"Nature," Vol. 138, Nos. 3499-3503.

"Journal of Nutrition," Vol. 12, No. 5, November 1936.

"Canadian Journal of Research," Vol. 14, Nos. 10 and 11.

"Science and Culture," Vol. II, Nos. 6 and 7.

"Lingnan Science Journal," Vol. 15, No. 4, November 1936.

"Scientific American," Vol. 155, No. 6; Vol. 156, No. 1.

#### Catalogues:

"Monthly list of books on Natural History and Science," December 1936. (Messrs. Wheldon and Wesley, Ltd., London.)

## ACADEMIES AND SOCIETIES.

### Indian Academy of Sciences:

December 1936. SECTION A.—M. BORN AND N. S. N. NATH : *The Neutrino Theory of Light.*—II. CH. V. JOGA RAO : *An Optical Investigation of Some Indian Oils.* III.—*Intensity of the Scattered Light.*—The light scattered by the oils has a genuine molecular origin, and is subject to the usual laws of molecular scattering in dense media. H. GUPTA : *On a Conjecture of Ramanujan.* P. SURYAPRAKASA RAO AND T. R. SESHADRI : *Reactivity of the Double Bonds in Coumarins and Related  $\alpha$ - $\beta$  Unsaturated Carbonyl Compounds. Part III.—Action of Mercuric Acetate on Coumarinic and Coumaric Acids and Esters.* M. K. PARANJPE : *The Convection and Variation of Temperature near to a Hot Surface. Part II. Applications of Interferometry to the Measurements of Temperatures and Temperature Gradients Very close to a Hot Surface.*—Details of method and

various precautions to be taken are discussed. S. CHOWLA : *On a Relation between Two Conjectures of the Theory of Numbers.* I. CHOWLA : *The Number of Solutions of a Congruence in Two Variables.* S. RAMA SWAMY : *The Structure of Thin Metallic Films.*—The structures have been studied by electron diffraction, and evidence has been obtained for the existence of gold and silver in the amorphous state. R. S. KRISHNAN : *X-Ray Diffraction and Electrolytic Dissociation.—Sulphuric Acid and Sulphates.* The change in the character of the halo with progressive dilution of pure sulphuric acid is followed. B. Y. OKE : *Lattice-Theory of Alkaline Earth Carbonates. Part IV.—Elasticity Constants of Calcite.* K. L. RAMASWAMY : *Refractive Indices and Dispersions of Gases and Vapours. Substituted Methanes and Ethane, Cyclopropane, Ethylene Oxide, and Benzene.* M. A. GOVINDA RAU : *The Dipole Moment and Structure of Pyrones.*—2,6 Dimethyl-



*γ-Pyrone, Xanthone, and Coumarin.* The observed moments are explained on the basis of the various excited and unexcited states in resonance.

December 1936. SECTION B.—L. A. KRISHNA IYER: *The Primitive Culture of Travancore.* M. A. H. QADRI: *Male Genitalia of Mallophaga Infesting North-Indian Birds.*—The Male Genitalia of some of the important forms belonging to Amblycera and Ischnocera have been described. PRAKASH CHANDRA JOSHI: *Some Phases of the Life-History of Two Tibetan Caryophyllaceæ—Arenaria musciformis Wall and Thylacospermum rupifragum Schrenk.*—The available stages in the development of the male and female gametophytes of the two plants and the structure of the seed of the latter have been described. BENI CHARAN MAHENDRA: *A Case of Polymely in the Indian Bull-Frog Rana tigrina Daud.*—A complete description of the external features of the specimen has been provided together with an account of the correlated abnormalities in the muscular, skeletal and nervous systems. L. A. KRISHNA IYER: *Anthropometry of the Primitive Tribes of Travancore.*—Additional evidence is provided for the existence of a Negrito strain in the aboriginal population of South India.

### The National Academy of Sciences, India:

December 21, 1936.—R. N. GHOSH: *On a Simple Derivation of Stresses in a Moving Fluid.* L. S.

MATHUR: *Infra-red Absorption Spectrum of Tin-di-iodide.* L. S. MATHUR: *Determination of Latent Heats of Vapourisation of the Selenides of Cadmium and Mercury and Telluride of Zinc from the Absorption Spectra of Their Vapours.* B. N. SINHA: *The Prevention of Rots in Tomatoes with Esq. Reference to the Mould's Attack.*

### Calcutta Mathematical Society:

December 20, 1936.—N. N. GHOSH: *A Note on the Solution of a System of Linear Equations.* S. GHOSH: *On Some Two-Dimensional Problems of Elasticity.* M. DE DUFFAHEL: *Sur Certains Systemes d'Equations aux Differences Totales.* M. DE DUFFAHEL: *Sur la Generalisation du Probleme de Dirichlet et sa Solubilite.*

### Meteorological Office Colloquium, Poona:

November 3, 1936.—Dr. K. J. Kabraji.—“The condensation of water in the atmosphere” [based on Bennett's paper on the subject (*Q. J. Roy. Met. Soc.*, 1934) and on cognate researches of H. Kohler].

November 10, 1936. Dr. L. A. Ramdas.—“Some problems of solar and atmospheric radiation.”

November 24, 1936. Dr. S. K. Pramanik.—“Bergeron's paper on the physics of cloud and precipitation.”

## UNIVERSITY AND EDUCATIONAL INTELLIGENCE.

### Benares Hindu University:

#### Annual Meeting of the Court.—

At the Annual Meeting of the Court held last month the following office-bearers were elected:—

*Chancellor:* Major-General His Highness Maharajadhiraj Raj-Rajeshwar Narendra-Shiromani Maharaja Shri Sir Ganga Singhji Bahadur, G.C.S.I., G.C.I.E., G.C.V.O., G.B.E., K.C.B., LL.D., A.D.C., Maharaja of Bikaner. *Pro-Chancellors:* (1) Major His Highness Raj-Rajeshwar Sir Umed Singh Bahadur, G.C.I.E., K.C.S.I., K.C.V.O., Maharaja of Jodhpur. (2) His Highness Maharaja Sir Aditya Narain Singh, K.C.S.I., Maharaja of Benares. *Pro-Vice-Chancellor:* Raja Jwala Prasad, B.A., C.E., M.I.E. (India). *Treasurer:* Rai Govind Chand, M.A., M.L.C.

#### Faculties.—

At the Annual Meeting of the Faculties the following Deans were elected:—

*Faculty of Arts:* Prof. Gurmukh N. Singh, M.Sc. (London), Bar-at-Law. *Faculty of Science:* Prof. P. K. Dutt, M.A. (Cantab.). *Faculty of Technology:* Dr. N. N. Godbole, B.Sc., M.A., Ph.D. (Berlin). *Faculty of Law:* The Rt. Hon'ble Dr. Sir Tej Bahadur Sapru, Kt., P.C., LL.D. *Faculty of Oriental Learning:* Mahamahopadhyaya Pandit Pramathnath Tarkbhushan. *Faculty of Ayurveda:* Mahamahopadhyaya Kaviraj Dr. Gananath Sen, M.A., M.D., L.M.S. *Faculty of Theology:* Pandit Vidyadhar Gour.

#### Research.—

Pandit Raj Bali Pandey, M.A., a research scholar, submitted a thesis on *the Origin, Significance and History of Hindu Sanskaras* which was

sent for valuation to three external examiners—Prof. A. B. Keith, Dr. Ganganath Jha and Mr. P. V. Kane. The reports of the examiners being unanimously favourable, the Faculty of Arts recommended to the Senate that the Degree of Doctor of Letters be conferred on Pandit Raj Bali Pandey.

The University has vigorously pursued the policy of undertaking research work related to the industrial needs of the country. Out of nine prizes awarded by the Industrial Research Council of the Government of India the University secured three prizes—the second, the third and the fifth. The second prize was awarded to Dr. V. S. Dubey, D.Sc. (London), and Prof. M. B. Rane, M.A., for working out a process for the manufacture of sulphuric acid from Gypsum. The third prize was won by Dr. V. S. Dubey and Mr. P. N. Agrawal, M.Sc., for their work on the substitution of soda ash by an Indian rock in glass manufacture. The fifth prize was awarded to Mr. Sadgopal, M.Sc., for his valuable work on the aromatic resources of India.

### University of Mysore:

#### 1. Examinations.—

The Pre-Medical, (I) M.B.B.S. and (II) M.B.B.S. examinations were held in December 1936.

#### 2. Extension Lectures.—

The following extension lectures in Kannada were delivered:—

(a) Mr. H. K. Ramiengar, M.A., Assistant Director of Industries and Commerce, Bangalore, on “Village or Rural Industries”, at Nanjangud.