

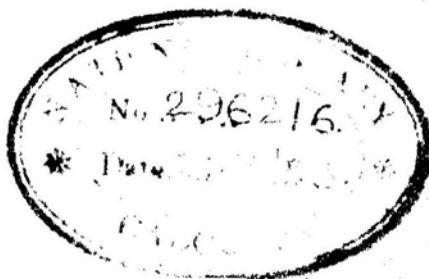
AGRA UNIVERSITY

LIST OF RESEARCH PAPERS

Published

FROM

AFFILIATED COLLEGES DURING 1947-52



NOV. 1952

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Agra College, Agra

Physics

S. K. MUKERJI & BANARASI LAL.

1. On the Raman spectrum of Thianthrene in the solid state.
(Indian Journal of Physics, Vol. XXV, No. 7 July 1951)
2. On the Raman Spectrum of Diphenyl Methane.
(Indian Journal of Physics, Vol. 1, No. 1, January 1951)
3. On the Raman Spectrum of Thianthrene in the Molten state.
(Indian Journal of Physics, June 1952)
4. On the Raman Spectra of p-diphenylbenzene in various solutions
(IL NUOVO CIMENTO, Vol. IX, No. 5, 1952)
5. On the Raman Spectra of Thianthrene in various solutions.
(IL NUOVO CIMENTO, N. 8, 1952)
6. On a method of getting a strong source of Resonance Line of Mercury for Excitation of Raman Lines.
(IL NUOVO CIMENTO, in the press)

Chemistry

1. Physico-Chemical studies on the composition of complex metallic ferro-ferricyanides. part I..... J. I. C. S. 1917, **12**, 487-94
2. Do..... do..... part II..... J. I. C. S. 1947, **12**, 499-502.
3. Do..... do..... part III... J. I. C. S. 1948, **25**, 27-32
4. Do..... do..... part IV... J. I. C. S. 1948, **25**, 185-90
5. Do..... do..... part V... J. I. C. S. 1948, **25**, 191-194.
6. Do..... do..... part VI... J. I. C. S. 1948, **25**, 220-226.
7. Do..... do..... part VII J. I. C. S. 1948, **25**, 349-354.
8. Do..... do..... part VIII... J. I. C. S. 1949, **26**, 46- 52.
9. Do..... do..... part IX... J. I. C. S. 1950, **27**, 131-137.
10. Do..... do..... part X... J. I. C. S. 1950, **27**, 251-254.
11. Influence of absorption of FeCy and Cd⁺⁺ ions, and that of hydrolysis on the composition of Cadmium ferricyanide. J. I. C. S. 1948, **25**, 47- 50.
12. Studies on the composition of ferric arsenite and ferrous arsenate part I. J. I. C. S. 1949, **26**, 99-102.
13. Do..... do..... part II ... J. I. C. S. 1949, **26**, 103-105.
14. Do..... do... part III... J. I. C. S. 1951, **28**, 221- 24.
15. Composition of Ferrie ferrocyanide by potentiometric method J. I. C. S. 1951, **28**, 141- 49.
16. Do..... by conductometric method J. I. C. S. 1951, **28**, 703-709.
17. Do..... by Thermometric method J. I. C. S. 1951, **28**, 473- 79.
18. Composition of Mercuric ferrocyanide by conductometric method J. I. C. S. 1951, **28**, 179- 84.
19. Coagulation of Colloids and a time concentration equation on the precipitation effect of electrolytes part I. J. I. C. S. 1951, **28**, 529- 34.
20. Do..... do..... part II J. I. C. S. 1952, **29**, 638- 44.
21. Studies on the composition of turnbulls blues by Thormometric method..... J. I. C. S. 1952, **29**, 535- 8.
22. Studies on the composition of ferrous ferrocyanide by potentiometre method. J. I. C. S. 1952, **29**, 54- 16
23. Studies on the sal-gel transformation of Zinc ferrocyanide part I J. I. C. S. 1952, **29**, 284- 9.
24. Studies on the composition of ferrous ferrocyanide by conductometric method J. I. C. S. 1952, **29**, 29 - 36.
25. Physico-Chemical studies on the composition of complex metallic ferro and ferricyanides part XI J. I. C. S. 1952, **29**, 117-122.
26. Do..... do..... part XII. Published in National Academy of Sc.
27. Physico-Chemical studies on the composition of metallic ferro and ferricyanides part XIII..... J. I. C. S. 1952, **29**, 263- 69.
28. Composition of Berlin green by Thermometric method

List of the papers accepted for publication in the Journals.

29. Coagulation of colloids and a time concentration equation on the precipitation effect of electrolytes part III.	Accepted for publication in the J. I. C.
30. Do..... do..... part IV	Do..... Do.....
31. Studies on the sol-gentransformation of Zinc ferrocyanide part II.	Do..... Do.....
32. Studies on the Variation of physical properties of primary clays part I.	Accepted for publication J. I. C. S.
33. Do..... do.... part II.....	Do..... Do.....
34. Do..... do..... part III.....	Do..... Do.....
35. Soil hydrolysates-Preliminary studies part I.....	Accepted by the Jour. Ind. Agri. Research, New Delhi.

List of papers published by Dr. K. K. Baslas, M. Sc., Ph. D. (Gold Medalist) Lecturer, Agra College, Agra.

1. Essential oil from the leaves of "Aegle Marmelos." J. I. C. S. 26, 5, 1949.
2. Essential oil from the leaves of "Blumea Lacera" J. I. C. S. 27, 1, 1950.
3. Essential oil from the Berries of "Levunge scandens" J. I. C. S. Vol. 27. B. 1950.
4. Essential oil from the Galla of "Pistacia Integeerrima" J. I. C. S. Vol. 27. 9. 1950.
5. Essential oils from leaves, Twigs and Fruits of "Aegle Marmelos." J. I. C. S. Vol. 28, '1, 1951.
6. Studies in the constituents of the Fatty oil from Lavungo Scandens. (Accepted for publication in J. I. C. S.).

List of papers published by Dr. R. R. Agarwal M. Sc., Ph. D. Lecturer, Agra College, Agra.

1. Bromination of Oxymethylene Methyl Ethyl Ketone and of oxymethylene acetophenone. (J. I. C. S. Vol. 26, No. 1, 1949).
2. Alkylation of Ketones. (J. I. C. S. Vol. 26, No. 10, 1949).
3. Synthesis and Reactions of Hydroxy-methylene Ketones (J. I. C. S. Vol. 28, 2, 1951).

4. Alkylatirion Ketones. Part II. (J. I. C. S. Vol. 28, No. 2, 1951.)
List of papers published by Shri S. M. L. Gupta, M. Sc., Lecturer Agra College, Agra.

Bromination of methylene

1. Methyl Ethyl Ketone and of oxymethylene acetophenone. (J. I. C. S. Vol. 26. No. 1, 1949.)
2. Synthesis and Reactions of Hydroxy methylene Ketones—J. I. C. S. Vol. 28, No. 2, 1951)

Zoology

26. Radha Krishna "A unique case of arterial abnormality in *Rana tigrina* Kaushik Daud." (Current Science, July 1948, pp. 218-220).
27. P. A. Sheromany "Skeleton abnormalities in *Rana tigrina* Daud." (Science and Culture, Dec. 1950, pp. 256-257).
28. G. N. Pachori: "On the Occurrence of an Accessory Hind-limb in *Rana tigrina* Daud." (Jour. Roy. As., Soc. Bengal, Sci, vol. XVI, no. 2, 1950).
- 1947 ... (36) "Contribution to the Bionomics, Anatomy, Reproduction and Development of the Indian House-Gecko, *Hemidactylus flaviviridis* Ruppel. Part IV. The Respiratory and Vocal Organs." (Proc. Ind. Acad. Sci, vol. XXV, pp. 57-73).
- " ... (38) "The Vocal Organs of *Hemidactylus flaviviridis* Ruppel." (Proc. Ind. Sci. Congr., Delhi 1947, pp. 186-187).
- " ... (39) "The Pigmentary Response in *Hemidactylus flaviviridis* Ruppel." (Ibid., p. 187).
- " ... (40) "The Nervous System of *Hemidactylus flaviviridis* Ruppel." (Ibid., p. 187).
- " ... (42) "The Skull of the Indian House Gecko, *Hemidactylus flaviviridis* Ruppel." (Proc. Zool. Soc. Bengal, Vol. 12, no. 1, pp 29-42, March 1949).
- 1950 ... (43) "The Osteology of the Indian House-Gecko, *Hemidactylus flaviviridis* Ruppel." (Proc. Zool. Soc. Bengal. Vol. 3. no. 1, pp. 49-64, March 1950).

Botany

List of publications of Dr. S. Sinha, Professor of Botany, Agra College,

Agra:—

7. On the pathogenicity of certain fungi attacking mango fruits in storage
Jour. Ind. Bot. Soc. Vol. xxvii, 1948. *
8. Investigations of certain chemical factors affecting the growth of
fungi in mangoes. *Ibid.* Vol. xxix, 1150.
9. Further addition to the Synchytria of India. Indian Phytopatho-
logy. Vol. iv, No. 1, 1951.

Bareilly College, Bareilly

Geography

Title of the paper.	Name and year of the Research Journal in which the said paper has been published.	Name and qualification of the author
1. Physical Geography of the Arabs April-June, 1947.	Indian Geographical Journal, Ziauddin Al- avi, M. A.	Shri S. M.
2. Arab Geography...Regional and Economic. July-Sept., 1947	Madras.	Ph. D
3. Arab Geography...Agricul- tural and Economic. April- June, 1948.		
4. Arab Explorations...July, 1948.	Islamic Culture, Hyderabad Deccan.	
5. Arab Geography-Distribu- tion of Plants and animals. Winter Number—1948.	Aligarh Magazine.	
6. Arab Geography...Human— 1948.	Geographer, Aligarh.	
7. Arab Geography...Mathema- tics Astronomical—1949.	M. U. Journal, Aligarh.	
8. Some uses of Astrolabe— Dec., 1949.		
9. A survey of Arab Geographi- cal Literature...June, 1950, Oct. 1951, April, 1952.	Islamic Literature, Lahore.	

Balwant Rajput College, Agra

1.	Wage regulation in Sugar Industry.	Labour bulletin, U. P. Govt. November 1950.	Dr. Raghuraj Singh, M.A., Ph. D., Economics.	(vii)	hood of Maximum usable frequency. Effect of variation of thickness of Ionospheric layers on the magneto-ionic fading of radio signals.	241. Allahabad 1949.
2.	The variations of Acidity Alcohol Test & phosphate number in samples of fresh Buffalo Milk.	The Indian Journal of Veterinary Science & Animal Husbandry Vol. XVII Part IV, Post-graduate Part IV, Dec. 1947.	Sri Gajraj Singh, B.Sc. Ag.	(viii)	Predicted & observed values of Electronic Densities in the Ionosphere.	Proc. Ind. Sci. Cong. Part III. Abs. No. 8 page 241. Allahabad 1949.
3. (i)	Variation of Electronic Density in the Ionosphere with Latitude.	Proc. Ind. Sci. Cong. Part III. Abs. No. 25, page 167 Patna 1948.	Dr. Ram Neti Singh, M.Sc. Ph.D., (Phys.) trained in Agri. Meteorology, Poona.	(ix)	Periodic fading of radio signals and vertical movement of Ionospheric layers.	Proc. Ind. Sci. Cong. Abs. No. 9, page 242. Allahabad 1949.
(ii)	Periodic or Rythmic Variation of the Intensity of short wave radio signals.	Proc. Ind. Sci. Cong. Part III. Abs. No. 2 page 99, Patna		(x)	Intensity variation of radio signals and their bearing on Diversity reception.	Sci. & Culture Vol. 14. No. 7, page 293, Jan. 1949.
(iii)	Variation of Electronic Density in the Ionosphere with Latitude.	Science & Culture Vol. 13. page 293. Jan. 1948.		(xi)	Thermal Expansion of Ionospheric layer and temporary Morning Disapperarance of radio signals.	Nature Vol. 164, page 925. Vol. 26, 1949.
(iv)	Periodic or Rythmic Variation of Intensity of shortwave radio signals.	Ind. Jour. of Phys., Vol. 22, No. 9, page 413, Sept. 1948.		(xii)	Predictions of the Ionospheric conditions from the observations of fading pattern of Radio Signals.	A. U. Research Journal Mag. 1950-51.
(v)	Periodic Fading of radio signals and vertical movement of Ionospheric layers.	Proc. Ind. Sci Cong. Part III. abs. No.6 page 240, Allahabad 1949.		(xiii)	Insolation & Temperature over the Earth & their importance in relation to plant life.	B. R. C. Agricultural Mag. 1950-51.
(vi)	Intensity of Radio-signals in the neighbour-	Proc. Ind. Sci. Cong. Part III. Abs. No. 7, page				

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| 4. (i) | On the Raman Spectrum of Diphenylmethane. | Ind. Jour. of Phys. Vol. I, No. 1, Jan. 1951. | Shri B. L.
Kulshrestha,
M.Sc., L.T. |
| (ii) | On the Raman Spectrum of Thinthrene in the Solid State. | Ind. Jour. of Phys. Vol. XXV, No. 7, July 1951 | |
| (iii) | On the Raman spectrum of thianthrene in the molten state. | Ind. Jour. of Phys. June, 1952. | |
| (iv) | On the Raman Spectra of p-diphenylbenzene in various solutions. | IL NUOVO CIMENTO, Vol. IX, No. 5, 1952. | |
| (v) | On the Raman Spectra of Thianthrene in various solutions. | IL NUOVO CIMENTO Aug. 1952 | |
| (vi) | On a method of getting a strong source of Resonance line of mercury for excitation of Raman Lines. | IL NUOVO CIMENTO in the press. | |

Christ Church College, Kanpur

- List of research papers published by Mr. H. C. Saraswat, M. Sc., Professor of Chemistry, Ch. Ch. College, Kanpur.
1. Formula of Complex Compounds from Solubility Data. Proc. Indian Academy of Sciences Vol. XXX, 329, 1949
 2. Spreading of Highpolymers: Copolymer of Styrene and Methylmethacrylate. Jour. of Scientific & Industrial Research, 1950, V. 9B, No. 10, P. 261.
 3. Activated Sugar Charcoal as Hydrogen Ion Indicator Electrode in Acid -Base mottrttiePeic Titrations. Jour. & Proc. Institute of Chemists Vol. XXII, Dec. 1950, P. 181.
 4. Spreading Properties of Highpolymers. Journal of Polymer Science(U.S.A) Vol. VII, No. 2/3, 1950, P. 325.
 5. Kinetics of Formation of Absorption Films of Thymolblue. Kolloid-Zeitschrift (Germany) Band 123, Heft 2/3, Seite 100 (1951).
 6. Surface Films of Bromothymolblue. Ibid. July-Aug. 1952.
 7. Surface Films of Bromophenolblue. Ibid.
 8. A Technique for Investigating the Effect of pH on spreading Properties of substances. Jour. of Scientific & Industrial Research, 1952, Vol. 11B, No. 8, P. 349.
 9. Surface Films of Invertase. Accepted for publication, Proc. Indian Academy of Sciences, Vol. VI, Oct. 1952.
 10. Aging of Surfaces of Invertase Solutions. Ibid

by Lakshman Singh

3. Recanence of Planetary Orbits:
Part (b) Orbital Velocity and Part (c)
Axial Rotation
Science and Culture, Vol. 18, p 37.
July, 1952

Physics

1. Formation of Planets and Satellites
Science and Culture, Vol. 17, p. 442;
April 1952.
 2. Recanence of Planetary orbits:
Part (a) Distance from the Sun
Science and Culture, Vol. 17, p. 525,
June 1952.
- by Lakshman Singh

Durbar College, Rewa

LIST OF RESEARCH PAPERS PUBLISHED BY THE TEACHERS OF DURBAR COLLEGE REWA, IN IMPORTANT RESEACH JOURNALS DURING LAST FIVE YEARS *

Name and qualification of the author.	Title of the Paper	Name and Year of the Research Journal.	Name and Qualifications of the Author.
Dr. J. K. Das Gupta, M. A., Ph. D. (London) Principal and Head of the English Department Durbar College, Rewa. U. P. "Some Friends of John Keats".	The Baghela Dynasty of Rewa Virasimhadeva	K. M. Munshi Diamond Jubilee Indological Volume -Bharaiuya Vidya Part II, 1950	A. H. Nizami, M. A., LL. B.
Journal of the Department of Letters, Calcutta University, Vol. XXVIII.	The Irem-Chingare of Hafiz Nejaf Ali Shah of Salon	Journal Bombay Branch of the Royal Asiatic Society of Great Britian-June 1950	...Ditto...
Dr. S. D. Saxena, M. Sc., Ph. D. (Botany) Professor and Head of the Botany Department, Durbar College, Rewa, V. P.	A Nishan of Muhammad Akbar heir-apparent of Shah Alam Bahadur Badshah Ghazi.	Proceedings of the Indian Historical Records commission Nagpur, 1950.	...Do...
Name and year of Research Journal in which the said paper has been published.	The Tarikh-i Muhammadi of the hammad Bihamad Khani.	15th A. I. Oriental Conference Lucknow 1951	...Ditto...
Name and qualification of the author.	Biramdeo Bagheta Muqaddam of Ghorra	14th Indian History Congress, Jaipur, 1951	...Do...
1. A Species of Phyllotheeca from the Pali-beds:	Nine Gems of the Court of Maharaja Bhava Simha of Rewa	Journal of the Ganganatha Jha Research Institute, Allahabad, 1952. (Accepted.)	...Do...
2. Fossil Plants from the Pali-beds.	Muhammadabad-Kalpi-- a short History	Mediaeval India Quaterly, Aligagh 1952 (in press)	...Do...
3. A New Species of Phyllotheeca (P. Striata) from South Rewa and its comparison with P. Etheridgei.	do do		
4. Fossil Plants from Ganjra Nalla South Rewa			
5. On a New Species of Phyllotheeca (P. Sahni) from the South Rewa Gondwana basin, Central India, & its comparison with P. Etheridgei from the New Castle Series, New South Wales, Australia.	The Palaeo Botanist Vol. I PP. 409-415.....1952.		

D. A. V. College, Kanpur

- Dr. H. P. Agarwal, M. Sc. Ph. D. (Chemistry Department).
1. Reduction processes at the dropping mercury electrode in pulsating fields—Proc. Ind. Acad. Sci. 1951, Vol. 33, P. 66.
 2. Role of indifferent & electrolyte in electrode kinetics—J. Phy. Colloid. Chem. 54, 1950, 804
 3. Electrochemical reactions in alternating electric field—proc. Ind. Acad. Sci. 1950 Vol. 32, p. 416.
 4. A new polarization effect: Redoxokinetic potential—J. Sci. Ind. Res. 1950, V 9, No. 11, p. 280.
 5. Redoxokinetic effect: a general phenomenon—Proc. Ind. Acad. Sci. 1951, 34, 229.
 6. The theory of Redoxokinetic effect and a general method for determination of 'L' of absolute reaction rates—Proc. Ind. Acad. Sci. 1951, 34, 263.
 7. The theory of redoxokinetic effect: a correction Proc. Ind. Acad. Sci. 1952. 35, 45
 8. Further studies on redoxokinetic effect—to appear in Agra University Journal which will be published at the occasion of its Silver Jubilee in November 1952.

D. A. V. College, Dehra Dun

Dr. K. D. Jain, M. Sc., Ph. D., *Papers published in Journals:-*

A. R. I. C.

- (1) Electrometric studies of the Rate of Absorption of Acids by Sugar Charcoal from aqueous solutions determined with wuinhydrone Elecarode.
—(Journal of the Indian Chemical Society 1952.)
- (2) Activated sugar charcoal as Hydrogen Ion Indicator Electrode in Acid-B are Potentiometric Titrations.
—(Journal and Proc. Inst. Chem. Vol. XXII. December 1950.)

Papers Published by Dr. C. M. Rangam, M. D., Professor of Pathology, Mahatma Gandhi Memorial Medical College, Indore. (M.B.)

1. Effects of Pregnancy and Lactation in a Transplantable Spindle cell sarcoma in CBA mice. British Journal of Cancer. Vol. IV. P. 90. 1950.
2. Neurological aspects of Polyarteritis Nodosa. University of Leeds Medical Magazine. Vol. 20, No. 2, May, 1950.
3. Squamous Metaplasia and Keratinisation in cystic hyperplasia of the human Breast. I, M. G. Vol. LXXXV. No. 1. (Jan. 50.)
4. Inguinal Hernia of uterus and Testes in a Pseudohermaphrodite. I. J. Surgery. Vol. XII (Dec. 50).
5. Primary Carcinoma of Fallopian tube. Indian Medical Gazette. Vol. LXXXVII No. 1, Jan. 52.

Paper published by Dr. S. K. Mukerji, M. B. M. R. C. P.

Professor of Medicine, Mahatma Gandhi Memorial Medical College, Indore.

1. Infantile Cirrhosis of liver Jour. Ind. Med. Assoc., Oct. Issue (1952).
- List of Papers Published by Dr. H. N. De, M. Sc. Ph. D., Assistant Professor of Bio-Chemistry, Mahatma Gandhi Memorial Medical College, Indore, and his Collaborators.*

1. Ascorbic acid requirement of Indian Adult. (1948). Ind. Jour. Med. Res. 36, p. 249.
2. Nicotinic-acid requirement of Indian Adult. 1948. Ind. Jour. Med. Res. 36, p. 335.
3. Study of the mechanism of biosynthesis of ascorbic acid during germination. (1949). Ind. Jour. Med. Res. 37, p. 101.
4. Mutual influence of minerals in metabolism. (1949). Ind. Jour. Med. Res. 37, p. 213.
5. Copper and manganese metabolism with typical Indian dietaries and assessment of their requirements for Normal Indian adult. (1949). Ind. Jour. Med. Res. 37, p. 301.
6. The availability of ascorbic acid of Shaddock (*Citrus decumana*) by adult human subject. (1948). Jour. Ind. Chem. Soc. 25, p. 389.

7. Utilisation of whey—a milk waste in the production of Chana—for supply of calcium to the poor rice diet. (1948). Ind. Jour. Anim. Husb. & Vetr. Sci. 18, p. 241.
8. Comparative studies on calcium utilisation and growth-promoting value with butterfat and crude and refined coconut oil. (1949). Ind. Jour. Dair. Sci. 2, p. 114.
9. Role of vitamins in the metabolism of calcium, magnesium and phosphorus in human subject. (1948). Ann. Bio. & Expl. Med. 8, p. 127.
10. Role of vitamins in the metabolism of iron, copper and manganese. Ann. Bio-chem. & Expl. - Med. 9, p. 1wu. (1949).
11. Study of the bisulphite-binding substance of urine of normal human adult fed on different rice diets for assessment of the vitamin B1 level of the diets to satisfy the adult requirement. (1949). Annal. Biochem. & Expl. Med. 9, p. 135.
12. Vitamin B1 content of some Ayurvedic drugs. (1948). Sci. & Culture, 13, p. 28.
13. Investigation on soyaben-milk powder. (1948). Sci. & Cult. 14, p. 248.
14. Study on Lathyrism—a disease produced by *lathyrus sativus*. Linn (1949) Sci. & Cult. 14, 159.
15. Further studies on the effect of deodorisation and refining of coconut oil on calcium utilisation. (1950). Sci. & Cult. 16, June issue.
16. Effect of sulphadimethylpyrimidine on the biosynthesis of thiamine and nicotinic acid in human subjects. (1949).
17. Mutual influence of nicotinic acid and riboflavin in metabolism. (1949). Ind. Jour. Med. Res. 37, P. 293.
18. Studies on the biosynthesis of B-vitamins. Part I. Investigation on the site of conversion of tryptophane to nicotinic acid, the validity of Guggenheim hypothesis, and the effect of prolonged deprivation of dietary nitrogen on the above biosynthesis. (1951). Ind. Jour. Med. Res. 39, p. 63.

19. Studies on the biosynthesis of B-vitamins. Part II. Effect of carbohydrate on the biosynthesis of riboflavin. (1951).
Ind. Jour. Med. Res. 39, p. 73.
20. Studies on the biosynthesis of B. vitamins. Part III. Effect of the protein level on the biosynthesis of riboflavin. (1951).
Ind. Jour. Med. Res. 39, p. 83.
21. Studies on the biosynthesis of B-vitamins. Effect of urea, uric acid, barbituric acid and alloxan on the biosynthesis of riboflavin. (1950).
Current Sci. 19, p. 241.
22. Studies on the biosynthesis of B-vitamins. Part V. Effect of nicotine quinoline, 3-31 dipyridyl and B-picoline on the biosynthesis of nicotinic acid. (1950).
Cur. Sci. 19, p. 279.
23. Iron metabolism with typical Indian dietaries and assessment of its requirement for normal Indian adult. (1950).
Ind. Jour. Med. Res. 38, p.
24. Oxalic acid metabolism with typical Indo-Pakistan dietaries. (1950).
Pakistan Journal of Scientific Research, Dec. Issue.
25. Effect of Carbohydrates and different organic and Inorganic nitrogenous compounds on the biosynthesis of nicotinic acid. (1951).
Ind. Jour. Med. Res. 39.
26. Studies on the conversion of tryptophane to nicotinic acid by rat tissue. (1951).
Ind. Jour. Med. Res. 39, p. 337.
27. Effect of different sulpha drugs and other antibacterial agents on the biosynthesis of nicotinic acid and riboflavin in the animal body. (1951).
Ind. Jour. Med. Res. 39, p. 353
28. The effect of some carcinogenic compounds on the biosynthesis of nicotinic acid. (1950).
Brit. J. Can 4, p. 430.
29. Studies on the biosynthesis of nicotinic acid during germination of pulses. (1951).
Ind. Jour. Agri. Sci. Dec. Issue.
30. Effect of colchicine induced polyploidy on the biosynthesis on nicotinic acid. (1951).
Ind. Jour. Agri. Sci. Dec. Issue.

Holkar College, Indore

Chemistry

1. Application of Hammick Andrew's equation to ternary mixtures part III By W. V. Bhagwat and Shukla. (J. Indian Chem. Soc. 1947, 24, 233)
2. Application of Hammick and Andrew's equation to ternary Mixtures part IV By W. P. Bhagwat and Shukla. (Ibid 1947, 24, 237)
3. Variation of apparent molar volume of nonelectrolytes in solution with concentration Part II By W. V. Bhagwat. (Ibid 1947, 24, 307)
4. Limits of application of Hammick Andrew's Law By W. V. Bhagwat, S. N. Kaweeshwar and Saxena. (Ibid 1948, 25)
5. Application of Mixture law to Rheochor Part I By W. V. Bhagwat and M. V. Subnis. (Ibid 1948, 25, 165)
6. Group parachor by Gibling's method Part I By W. V. Bhagwat and Bakore. (Ibid 1949, 25, 175)
7. Group Parachors by Gibling's method part II By W. V. Bhagwat and Bakore. (Ibid 1948-25, 261)
8. Application of Mixture law to Rheochor part II By W. V. Bhagwat, Subnis and Kanugo. (Ibid 1948, 25, 375)
9. The reaction between ammonium oxalate and Iodine By W. V. Bhagwat, Harmalkar and Bhandari. (1949, 26, 34)
10. Parachor of Ions By W. V. Bhagwat, Ramaih, S. O. Shukla and Kaweeshwar. (Ibid 1949, 26, 39)
11. Application of Mixture Law To Rheochor part III By M. V. Subnis, W. V. Bhagwat and H. G. Silawat. (J. Indian Chem. soc. 1949, 26, 533)
12. Parachor of Mercuric Chloride By R. P. Sukla and W. V. Bhagwat. (J. Indian Chem. Soc. 1950, 27, 271.)
13. A note on parachor and Resonance By W. V. Bhagwat and R. P. Sukla (J. Indian Chem. soc. 1950, 27, 283.)
14. Application of Mixture Law to Rheochor part IV By H. G. Silawat M. V. Subnis and W. V. Bhagwat (J. Indian Chem. soc. 1950, 27, 315.)
15. A note on parachor of sulphur and some organic compounds in solution (J. Indian Chem. soc. 1951, 28, 47.) By W. V. Bhagwat and R. P. Shukla.
16. Atomic parachor of copper By W. V. Bhagwat, R. P. Shukla and S. S. Deshpande (J. Indian Chem. soc. 1951, 28, 45)
17. A note on parachor and Resonance By W. V. Bhagwat and R. P. Sukla (J. Indian Chem. soc. 1951, 4 Vol. 28, No. 2.)
18. Application of Mixture Law to Rheochor part V By M. V. Subnis and W. V. Bhagwat. (J. Indian Chem. soc. 1951, 28, 275)
19. Parachor of semipolar bond from the study of the parachors of Hydrated Salts By M. V. Subnis and W. V. Bhagwat. (Rajputana University studies Vol. I page 53, 1951.)
20. Application of Mixture Law to parachor when same solute is dissolved as a solid and as a liquid By S. G. Khandekar, B. L. Pathak and W. V. Bhagwat (J. Indian Chem. soc. 1952, 29, 37)
21. Studies in photo-chemical after-Effect. Reaction between sodium Oxalate and Iodene By W. V. Bhagwat, M. M. Gupta and R. P. Sukla (J. Indian Chem. soc. 1952, 29, 40)
22. Application of Mixture Law to parachor, when same substance is dissolved as a solid and as a liquid By S. G. Khandekar and W. V. Bhagwat (J. Indian Chem. soc. 1952, 29, 301)
23. Application of Mixture Law to Rheochor of Ternary Mixtures By M. V. Subnis, W. V. Bhagwat (J. Indian Chem. soc. Vol. 29, 1952 p. 303)
24. Structure of SO_4^{2-} ion from the consideration of parachor By W. V. Bhagwat and R. P. Shukla (J. Indian Chem. soc. Vol. 29, No. 4 1952)
25. Parachor of Ions PART II By W. V. Bhagwat, R. P. Shukla and M. M. Gupta (J. Indian Chem. soc. Vol. 29, No. 9, 1952.)
26. Hydrogen Bonding and Resonance from the study of parachor By W. V. Bhagwat, R. P. Shukla, and S. G. Khandekar (J. Indian Chem. soc. Vol. 29, No. 9, 1952.)
27. Application of Mixture Law to Rheochor of Ternary Mixtures part

- III By W. V. Bhagwat, and M. V. Subnis (J. Indian Chem. Soc. Vol. 29, No. 9, 1952)
28. Reaction of Iodine I. Reaction between iodine and sodium formate in dark By S. L. Bana, W. V. Bhagwat and G. L. Maheshwari (J. Scientific and Ind. Res. 1952, 11, 226).
29. Reaction of Iodine II, Reaction between iodine and formic acid By S. L. Bana, W. V. Bhagwat and G. L. Maheshwari (J. Sci. and Ind. Res., 1952, 11, 228).
30. Reaction of Iodine III. Reaction between sodium malonate and Iodine S. L. Bana, W. V. Bhagwat and M. L. Tilak. (J. Sci. Ind. Res. 1952, 11, 231.)
31. Pyrones and related compounds Part VII. Action of ethyl-ortho-formate on diacetyl acetone. (Kaushal ibid 1947, 24, 189)
32. Formation of cellulose by *Acetobacter aceti nigrum*. (Kaushal and Walkar. Nature. 1947, 160, 572).
33. Essential oil from the flowers of camphor Hema Plant (Antia and Kaushal, Curr. Sci. 1950, 19, 284).
34. Formation and new method of preparation of 3-acetyl 4-carboxylic heptanol-4-dione-2, 6 carboxylic methyl ester-1. (Kaushal, Karambelkar and Deshpande. Curr. Sci. 1950, 19, 313.)
35. The stability of cyclopropane ring through addition reaction of diazomethane. (Ghate, Kaushal and Deshpande. J. Indian Chem. Soc. 1950, 27, 633).
36. Formation of cellulose by certain species of *Acetobacter*. (Kaushal, and Walker. Biochem. J. 1951, 48, 618).
37. Formation of glycolaldehyde by enzymatic scission of pentoses. (Kaushal, Jowett and Walker. Nature. 1951, 167, 949)
38. A simple device for spraying mould spores for surface cultures. (Kaushal, Curr. Sci. 1951, 20, 158).
39. Application of Fitting's reaction to the synthesis of sidechain aromatic ethers. Jain, Kaushal, and Deshpande. J. Indian Chem. Soc. 1951, 28, 49.)
40. Joshi Effect in I₂ Vapour under X-Rays. A. P. Saxena and P. K. Karamkar. Current Sciences 19, 275, 1950
41. Potential Reversibility of Joshi Effect in I₂ Vapour under silent electric discharge. A. P. Saxena (Jour. Ind. Chem. Soc. 28, 239, 1951).

Physics

1. A note on light-sensitivity of a resonance frequency pulse in the discharge current of an oxoniser. A. P. Saxena. J. Sci and Ind. Res. 11B, 311, 1952.
2. Inhibition of secondary emission under light in Low frequency electrodeless discharge. A. P. Saxena and N. Achut Ramaih. J. Chem. Physics. Aug. 1952. A. P. Saxena, Reader in Physics Deptt., Holkar College, Indore.
3. Joshi effect in I₂ vapour under X-Rays. Current Sciences. 19, 275, 1950.
4. Potential reversibility of Joshi effect in I₂ vapour under silent electric discharge. Jour. of Ind. Chem. Soc. 28, 239, 1951.
5. A note on light-sensitivity of a resonance frequency pulse in the discharge current of an oxoniser. Jour. Sci. , & Ind. Res. 11B, 311, 1952.
6. Inhibition of secondary emission under light in a low frequency electrodeless discharge. Jour. of Chem. Phys. (U. S. A.) appears in August issue 1952.

Jat Vedic Degree College, Bharatpur

Dr. B. B. Sinha, M. Sc., D. Sc.

1. (1947):—"A new genus of Amphistomes from the rumen of cattle from the United Provinces." *Ind. Jour. Vet. Sci. Ani. Hub.*, Volume VII part 1.
2. (1949):—"Description of a new genus of Trematode, sub-family Encyclometrinae Nicoll, 1932, from the intestine of a tortoise, *Hardella thurgi*." *Ind. Jour. Helminth.* Vol. I, No. 2.
3. (1950):—"Life History of *Cotylophoron cotylophorum*, a Trematode parasite from the rumen of cattle, Goat and Sheep," *Ind. Jour. Vet. Sci. Ani. Hub.* Vol. XX, part 1.

M. B. College of Agriculture, Gwalior

Contributions of R. K. Misra, Prof. agri & Principal (I/C)

1. Damodar Catchment : Preliminary survey to study water losses through evaporation and transpiration—Central Board Irr. Jour 5(3) 1948.
2. Sub-soil irrigation to plant growth, part I—Cent. B. Irr. four 5 (4) 1948.
3. Sub-soil irrigation in relation to plant growth, part II—Cent. B. Irr. Jour. 5 (4) 1948.
4. Some preliminary studies on evaporation, transpiration and evapo-transpiration—Cent. B. Irr. Jour. 6 (4) 1949.
5. Studies on carbon-dioxide factor in the air and soil layers near the ground—Ind. Jour. Met. Geo. 1 (4) 1950.
6. Further studies on the carbon-dioxide factor in the air and soil layers near the ground—Ind. Jour. Met. Geo. 2 (4) 1951.
7. Studies on evapo-transpiration from potted plants—Under publication.
8. A B C of Agronomy 1951.
9. Outlines of Farm Management 1952.

Contributions of Shri Y. B. Rangneker, Professor of Agri. Chemistry.

1. Studies on Soyabean Ascorbicase. Ind. Jour. Med. Res. Oct. 1948.
2. Studies on Vitamin C in Soya-bean and Soya-milk. Ann. Expt. Bio. & Med. Dec. 1948.

Contributions of Shri D. P. Motiramani Asst. Professor of Agri. Ch. (Shri S. C. Das & D. P. Motiramani).

3. A preliminary note on Diseases of Gram. Curr. Sc. 18, 1949.

Contributions of Shri O. P. Dahama, Sr. Lecturer, Agricultural Economics.

4. Transition in Farming Rural Ind. April 1951.
5. Mixed Farming Rural Ind. Aug. 1951.
6. Milk as Nutrition in India diet. Rural Ind. Aug. 1952.

Govt. Agricultural College, Kanpur

Agricultural Chemistry

The following papers have been published from the Chemistry Section since 1948.

1. Recent developments in Sugar Chemistry & Bye-products Research: By J. G. Shrikhande, Indian Sugar Supplement—1948, 87.
2. Use of lime in modern agriculture By J. G. Shrikhande—Indian Sugar 1948 Oct.
3. Earthworm and insects in relation to soil fertility By J. G. Shrikhande; and A. N. Pathak: Curr. Sci. 1948, 17, 327.
4. Assimilation of phosphorus during the decomposition of plant materials By J. G. Shrikhande; Curr. Sci. 1948, 17, 364.
5. Carbohydrates in the service of mankind By J. G. Shrikhande Indian Sugar, 1949, 12, 530.
6. Manuring of sugar Cane in some eastern districts of U. P. By J. G. Shrikhande & S. K. Mukerji: Indian Sugar 1949, May 385.
7. Potash-fixing capacity of alluvial soils—By A. N. Pathak, J. G. Shrikhande & S. K. Mukerji: Curr. Sci. 1950.
8. Phosphate fixation in alluvial soils By A. N. Pathak, S. K. Mukerji and J. G. Shrikhande: Curr. Sci. 1950, 19, 290.
9. The cation exchange capacity of the different mechanical fractions of the soils & its organic matter By A. N. Pathak, S. K. Mukerji & J. G. Shrikhande: Curr. Sci. 1949, 18, 375.
10. Sticky Manures By J. G. Shrikhande, Agric. & Animal Husb. Sept., 1950 (No. 4)
11. Nitrogen fixing capacity of the different fractions of the soil; By A. N. Pathak, J. G. Shrikhande & S. K. Mukerji: Curr. Sci. 1951, 20, 130.
12. Sight-controlling vitamin By J. G. Shrikhande, Agric. Ani-Husb. U. P. 1950 (No. 6) 1, 12.
13. Nutritive value of Berseem (*Trifolium Alexandrinum* Linn). I. Cutting at different stages of growth By B. P. Srivastava, S. K. Mukerji & J. G. Shrikhande: Ind. J. Vet. Sci. (in Press).

Agricultural Botany.

1. Some interesting features of the distribution of palms in relation to their origin. Ind. J. Genet. & Pt. Breed. Vol. 11 No. 1, 1951.
 2. Half inferior ovary in a variety of Kharbooz, *Cucumis melo* Curr. * Sci. Nov. 1951, 20:303.
 3. A palm fruit from Kapurdi (Jodhpur, Rajasthan desert). Curr. Sci. Vol. 5, 130, 1941.
 4. Polycarpy in *cicer acutinum* Curr. Sci. 19, 61, 62 1961.
 5. Agricultural Planning in India (Paper read in the first convention of Agricultural Research Workers and Experts in Uttar Pradesh held at Kaiserbagh Bardari, Lucknow from April 28 to 30, 1952.
 6. Teratological studies in the genus *Luffa*. Ind. J. Bot. Soc. 1951.
 7. Pollination and fruit setting in Parwal. Ind. Farming XI No. 20:68, 1951.
 8. Spontaneously originated hexaploid and tetraploid plants in *Cajanus cajan* Mill sp. Curr. Sci. 20:304, 1951.
 9. Brancher ears in Barley Agri. & Ani. Husb. in U. P. 1952.
- Plant Pathology Section.**
1. A leaf spot of Fig. caused by *Cylindrocladium-scoparium*. Ind. J. Agri. Sci. Vol. XVII-219 -21, 1947
 2. Diseases of Spinach. Curr. Sci. Sep. 1951-20.
 3. An anthracnose disease of spinach. Curr. Sci. Sep. 1951-20.
 4. A leaf spot disease of jowar caused by *Accochyta Sorghi* Sacc.Agric. & Ani. Husb. In U. P. Vol. VI (V) 18-27, 1950.
 5. Root rot of Guar Sci. & Culture 17:131, 1951.
 6. Red spot diseases of leaves of jowar (*Andropogon Sorghum*) I. *Accochyta* leaf spots—Ind. Phytopathology IV. 45-47, 1951.

7. Damping off in Saponaria. Sci & Culture 17:126-127, 1951.
8. Damping off in Hollyhocks Do 17: 91-92, 1951.
9. Damping off of Papaya seedlings Do 17:477-479, 1951.
10. Phyllosticta on castor Curr. Sci. 1949.
11. Studies on weed eradication in U. P. J. Dept. Agri. U. P. 1950.

S. N. Medical College, Agra

Publications by Dr. Sunita Inderjit Singh M. D. (Agra).

Research Scholar, Physiology Department, Medical College, Agra.

In "Current Science"

1. Metabolism of unstriated muscle. 1947 Vol. 16 page 259.
2. Active elongation of unstriated muscle. 1948, Vol. 17, page 306.
3. Active relaxation of unstriated muscle during inhibition produced by adrenaline. 1950 Vol. 19, page 60.
4. The inhibitory action of glucose on the mechanical response of unstriated muscle. 1950. Vol. 19. page 219.
5. Active relaxation of mammalian unstriated muscle 1, 2. During inhibition produced by adrenaline. 1951. Vol. 20. page 48.
6. Active relaxation of unstriated muscle 1, 2, 3, 4, 5, 6, from marine animals. 1951, Vol. 20. page 237.
7. Mechanism of tonus in unstriated muscle. 1952 Vol. 21 page 77.
8. The contractile system for lactic tone in unstriated muscle * 1951. Vol. 20. page 130.
9. Active relaxation of unstriated muscle. 1950. Vol. 166 page 647.
10. Active relaxation of unstriated muscle produced by adrenaline. 1951. Vol. 168. Page 829.
11. The interaction between ions and drugs and electrical stimulation as indicated by the contraction of avain unstriated muscle. Active elongation of unstriated muscle. Proc. Ind. Acad. Sci. 1947. Vol. 25. P. 51.
12. The mode of action of nerves on unstriated muscles. Proc. Ind. Acad. Sci. 1947. Vol. 25. page 163.
13. The action of direct current on unstriated muscle. Proc. Ind. Acad. Sci. 1947. Vol. 26 page 211.
14. The effect of asphyxia on the mechanical response of the frog's unstriated muscle and its relation to tonus. Proc. Ind. Acad. Sci. 1948. Vol. 27. page 127.
15. Neuromuscular transmission in frog's unstriated muscle. Proc. Ind. Acad. Sci. 1948. Vol. 28. page 51.
16. The action of ions and drugs on the effects of asphyxia on the mechanical response of unstriated muscle.

- Proc. Acad. Ind. Sci. 1949. Vol. 30. page 47.
17. Reactions of fatigued unstriated muscle and their relation to those of cardiac muscle. Proc. Ind. Acad. Sci. 1949. Vol. 30. Page 95.
18. The effect of asphyxia on the response of unstriated muscle to ions and drugs. Proc. Ind. Acad. Sci. 1949. Vol. 30. page 168.
19. The interrelation between the various metabolic mechanisms in unstriated muscle. Proc. Ind. Acad. Sci. 1949. 30. page 215.
20. A separate contractile mechanism for tonus in unstriated muscle. Proc. Ind. Acad. Sci. 1949. Vol. 30. page 263.
21. The action of various substances on the contractile mechanism of unstriated muscle. Proc. Ind. Acad. Sci. 1949. Vol. 30. page 270.
22. Active elongation of unstriated muscle during inhibition accommodation and relaxation. Proc. Ind. Acad. Sci. 1949. Vol. 30.343.
23. The mechanism of tonus in unstriated muscle. Proc. Acad. Ind. Sci. Vol. 31. page 351.
24. Further observations on the effect of some substances on the contractile mechanism of unstriated muscle. Proc. Ind. Acad. Sci. 1950. Vol. 32. Page 12.
25. Sleep as an adaptation phenomenon. Curr. Sci. 1946. Vol. 15. page. 307
26. Tonus in unstriated muscle. Curr. Sci. 1948. Vol. 17. page 321.
27. Metabolic mechanisms of unstriated muscle. Curr. Sci. 1949, vol. 18. page. 155.
28. Stimulation of unstriated muscle by change of temperature and other effects of temperature. Proc. Ind. Acad. Sci. 1952. Vol. 35. page 167.
29. The mode of action of adrenaline on unstriated muscle. Proc. Ind. Acad. Sci. 1952. Vol. 35 page 214.
30. Recovery of excitability from inhibition in unstriated muscle. Proc. Ind. Acad. Sci. 1952. Vol. 35. page 245.
31. The inhibitory action of glucose on the mechanical response of unstriated muscle. Curr. Sci. 1950. Vol. 19. page 219.
32. Active relaxation of mammalian unstriated muscle. During inhibition produced by adrenaline. Curr. Sci. 1951. Vol. 20 page 48.

33. The contractile system for lactic tone in unstriated muscle.
Curr. Sci. 1951. Vol. 20. page 130.
34. Active relaxation of unstriated muscle. Nature, 1950. Vol. 166, page 647
35. Active relaxation of unstriated muscle produced by adrenaline.
Nature, 1951. Vol. 168, page 829.
36. Active relaxation of unstriated muscle produced by adrenaline.
Proc. Ind. Acad. Sci., 1951. Vol. 33, page 184.

Medical College, Agra

Anatomy

Papers published by Dr. S. P. Jain, M.D., F.R.C.S., P.M.S. Professor of Anatomy, Medical College, Agra.

'Anatomical Approach to the Surgery of the Thymus'—Agra Medical College Clinical Society Journal, 1952.

Physiology

Paper published by Dr. U. R. Bharadwaj M.D., Reader in Physiology, Medical College, Agra.

In the Proceeding of the Indian Academy of Sciences.

1. Lactic Acid production in unstriated muscle and its relation to tonus and inhibition. —*Proc. Ind. Acad. Sci.*, 1951 Vol. 33, page 257.
2. The interaction between ions drugs and electrical stimulation as indicated by the contraction of avain unstriated muscle (II) Active elongation of unstriated muscle. 1947 Vol. 25, page 51.
3. The mode of action of nerves on unstriated muscle. 1947, Vol. 25, P. 163.
4. The effect of the interaction between ions, drugs and electrical stimulation as indicated by the contraction of human unstriated muscle. 1947, Vol. 26, page 205.
5. The action of direct current on unstriated muscle. 1947, Vol. 26, p. 211.
6. The effect of asphyxia on the mechanical response of the frog's unstriated muscle and its relation to tonus. 1948, Vol. 27, page 127.
7. Neuromuscular transmission in frog's unstriated muscle. 1948. Vol. 28, page. 51.
8. Tonus and inhibition unstriated muscle. 1949. Vol. 29. Page 190.
9. The action of ions and drugs on the effects of asphyxia on the mechanical response of unstriated muscle. 1949, Vol. 30, page 47.
10. Reaction of fatigued unstriated muscle and their relation of those of cardiac muscle. 1949. Vol. 30, page. 95.
11. The effect of asphyxia on the responses of unstriated muscle to ions and drugs. 1949, Vol. 30, page 168.

12. The interrelation between the various metabolic mechanisms in unstriated muscle. 1949, Vol. 30, page 215.
13. A separate contractile mechanism for tonus in unstriated muscle. 1949, Vol. 30, page 263.
14. The action of various substances on the contractile mechanism of unstriated muscle. 1949, Vol. 30, page 270.
15. Active elongation of unstriated muscle during inhibition, accommodation and, relaxation. 1949, Vol. 30, page 349.
16. The mechanism of tonus in unstriated muscle. 1950, Vol., 31 page 351.
17. Further observations on the effect of some substances on the contractile mechanism of unstriated muscle. 1950, Vol. 32, page 12.
18. Active relaxation of unstriated muscle produced by adrenaline. 1951, Vol. 33, page 184.
19. Stimulation of unstriated muscle by change of temperature and other effects of temperature. 1952, Vol. 35, page 167.
20. The mode of action of adrenaline on unstriated muscle. 1952, 35, 214.
21. Recovery of excitability from inhibition in unstriated muscle. 1952 Vol. 35, page 245.

Dr. A. Singh, Ph. D., Lecturer in Pharmacology
Medical College, Agra.

(The research work incorporated in the following research publications was carried on in the various Laboratories of Benares Hindu University where I was formerly employed.)

1. "Analysis and Utilisation of Bagasse" Proceedings of the National Academy of Sciences, INDIA,; 1951, Vol. 20, Part I pp. 15-28.
2. "Studies in Isolation, Estimation and Preparation of Derivatives of Cellulose"; Proceeding Indian Science Congress, 1948, Part III Abstracts, Section 4, Chemistry, Abstract No. 130, p. 41.
3. "A Comparative Study of the Properties of Synthetic Fibres prepared by Viscose Process from different cellulosic Materials" Proceedings Ind. Science Congress, 1948, Abstract No. 197, p. 66.

4. "Cost of Production of Synthetic Fibres in India"; Proc. Indian Science Congress, 1949, Abstract No. 198, p. 60.
5. "The Tensile Strength of Synthetic Fibres"; Proc. Ind. Science Congress, 1950, Abstract No. 199, p. 84.
6. "Recovery of Potassium Salts from Bagasse"; Proc. Ind. Science Congress, 1951, Abstract No. 176, P. 95.
7. "Production of Synthetic Fibres (Rayon) from Bagasse"; Proc. Ind. Science Congress, 1951, Abstract No. 177, p. 95.
8. "Preparation of Oxalic Acid from Bagasse"; Proc. Indian Science Congress, 1951, Abstract No. 178, p. 95.
9. "Saccharification of Bagasse"; Proc. Indian Science Congress, 1951, Part III Abstracts, Section 4, Chemistry, Industrial Chemistry, Abstract No. 179, p. 96.
10. "Rayon from Bagasse"; Jour. C. H. C. (K), Benaras Hindu University, 1951, Vol. 1 No. 1, pp. 9-12.
11. "Production of Cellulose-pulp from Bagasse"; Proc. Indian Science Congress, 1952, Part III Abstracts, Section 4, Chemistry Abstract No. 195, p. 124.
12. "Analysis, Ultimate Composition and Fuel Value of Bagasse"; Proc. Indian Science Congress, 1952, Part III Abstracts, Section 4, Chemistry, Abstract No. 196, pp. 124-25.
13. *List of Articles and Papers produced from the Department of Pathology, Medical College, Agra.*
14. Professor P. N. Wahl.

Papers.

1. Action of Certain Antimalarial Drugs on plasma Prothrombin Level in Normal and Malaria Subjects. Indian Physician, 6, 1, 1947.
2. Evaluation of Prothrombin Response to K As Liver Function Test. Ind. Med. Gaz. 82, 7, 1947.
3. Correlative Study of Liver Diseases. Ind. Med. Gaz. 81, 454, 1947.
4. Histopathologic Changes in Liver in Congestive Heart Failure. Ind. Med. Gaz. 82, 12, 1947.

Journal.

5. Quantitative Estimation of the Fibrous Tissue in Pathologic Livers. Arch. Path. 44, 563-570, 1947.
6. I Recent Trends in Pathology Teaching and Hospital Service. Jr. Ind. Med. Ass. 18, 5, 1949.
7. II Recent Trends in Pathology Teaching and Hospital Service. Jr. Ind. Med. Ass. 18, 4, 1949.
8. Diet and Cirrhosis of the Liver. Arch. Pathology, 47, 119-152, 1949.
9. Diagnostic Methods in Diseases of the Liver. Ind. Med. Gaz. 84, 7, 1949.
10. Epidermoid Carcinoma of the Corpus Uteri. Ind. Jr. Med. Sci. 3, 417, 1949.
11. The Place of Clinical Pathological Museum in Medical Education. Ind. Med. Gaz. 83, 2, 1950.
12. Splenomegaly in Congestive Heart Failure. Ind. Heart Jr. 230, 1950.
13. Exfoliative Cytology in Diagnosis of Cancer. J. I. M. A. 19, 12, 1950.
14. Plasmacytoma of the Nose. Ind. Jr. Surgery, 12, 2, 1950.
15. Primary Systemic Amyloidosis. Ind. Med. Gaz. 85, 12, 1950.
16. Graduate Education in Pathology S. N. Medical College Jr. Jan. 1951.
17. Cardiac Cirrhosis Ind. Jr. Med. Sci. 3, 5, 1951.
18. The Incidence of Rheumatic Stigmas in Hearts in Indians. Indian Heart Jr. 3, 1, 1951.
19. Asymptomatic Myocardial Infarction. Indian Heart Jr. 3, 1, 1951.
20. Pathological Diagnosis of Appendicitis. Ind. Jr. Surgery 13, 5, 1951.
21. Tuberculosis of the Myocardium. Ind. Med. Gaz. 86, 11, 1951.
22. Cytologic Diagnosis of Prostatic Carcinoma. Ind. Jr. Med. Sci. 3, 347, 1952.
23. Liver Function Studies in Acute Malaria. Ind. Jr. Med. Sci. 3, 3, 1952.
24. Liver Function Studies in Chrotic Malaria. Ind. Jr. Med. Sci. 3, 4, 1952.

25. Cytologic Diagnosis of Cervical Cancer—Study of Three Hundred cases. Ind. Jr. Med. Sci. 6, 343, 1952.
26. Acute Miliary Tuberculosis in Adults. Ind. Jr. Med. Sci. 6, 335, 1952.
27. Recent Trends in Cancer Research. S. N. Medical College Clin. Soc. Jr. August, 1952
28. Vaginal Cytology in Ovulatory and Anovulatory Cycles. Ind. Jr. Med. Sci. 6, 478, 1952.

G. K. Tiagi.

1. Observations on Blood Culture in Enteric Group of Fevers (Using Gentian Violet and Taurocholate Medium) I. M. A. 16, 4, 1947.
2. Mechanism of Antibiotic Action.

M. M. Arora.

1. Epidemiology of Epidemic Hepatitis in Indians.
2. Liver Function Studies in Acute Malaria.
3. Liver Function Studies in Chronic Malaria.

Pashpati Nath Wahl.

1. Meinicke's Clarification Reaction.
2. Pathological Diagnosis of Appendicitis.

R. L. Jain.

1. Epidermoid Carcinoma of Corpus Uteri.

2. Exfoliative Cytology in the Diagnosis of Cancer. J. I. M. A. 16, 12, 1950
3. Cytological Diagnosis of Cervical Cancer—Study of Three Hundred cases. Ind. Jr. Med. Sci. 6, 343, 1952.

K. C. Samuel

1. The Place of Clinical Pathological Museum in Medical Education. Ind. Med. Gaz. 85, 2, 1950.
2. The incidence of Rheumatic Stigmata in Hearts in Indians. Ind. Heart Jr. 3, 1, 1951.

S. P. Srivastava

1. A case of Osteo-clastoma of the head of fibula (Indian Journal of Surgery 1947)
2. Tetanus (Agra Medical College Clinical Society Journal, 1947)
3. A case of hydatid cyst of innominate bone (I. J. of S. 1948).
4. Pyonephrosis (India Journal of Surgery, 1948)
5. Hydatid Cyst of Liver with extensions into the abdominal cavity (Indian Journal of Surgery, Vol. X. No. 4, 1948.)
6. Cancer of Thyroid and aberrant thyroid (Indian Journal of Surgery, Vol. X. No. 4, 1948)
7. Hyperthyroidism (Clinical Society Journal Vol. XII, No. 1, December 1948).
8. Some Suggestions regarding the improvement in the Surgical department of the medical Colleges in India (S. N. Medical College, Journal, Agra Jan. 1951.)
9. Intestinal Obstruction due to Volvulus of small intestine—(Journal of Indian Medical Association Vol. XX No. 2, Nov. 1950).
10. Ankylosis Jaw in Children (Antiseptic August 1951.)
11. Surgery of the Prostate (Journal of Indian Medical Association Vol. XX No. 10, July 1951.)
12. Obstructive Jaundice (Indian Journal of Surgery Vol. III No. 4, Dec. 1951.)
13. Volvulus of cecum and ascending colon (Indian Journal of Surgery Vol. XIV No. 1, March 1952)

16. Epidermoid Carcinoma of Urinary Bladder. (Indian Medical Gazette Jan. 1952.)

O. P. Misra

1. "Studies on the Nutritional State of Surgical Patients"—Indian Journal of Surgery, Vol. XI, No. 2, 1949.

Paper published by Dr. K. N. Mathur M.S., D.O.M.S., Professor of Ophthalmology, Medical College, Agra.

2. "Epidemic Droopy Glaucoma"—published in Transactions of Indian Ophthalmology Society in 1951.

K. N. Gaur

1. Visceroptosis, Agra Medical College Society Journal May, 1947.
2. A case of Double Infection Meningitis (Meningococcal and Pneumococcal) The Antiseptic Feb. 1949, P. 292.

3. Emetine Hydrochloride and Sulpha Drugs combinations—a joint paper with Dr. J. N. Tayal Lecturer in Pharmacology, The Antiseptic April 1949, P. 292

4. Mediastinal Syndrome (Journal of Indian Medical Association July, 1949, page 371.)

5. Emetine in Giardiasis.
Journal of Indian Medical Association July, 1949, page 391.

6. Penicillin in Rheumatic Chorea, Indian Medical Gazette 1951, Jan., 15.

7. Myotonia Congenita Acquisita read and a case demonstrated at the meetings of the Association of Pathologists of India at Agra in November, 1950 (Indian Medical Gazette 1951 March, 99).

8. Acute Ascending Myelitis following the administration of Neoarabsamine Mathur, K. S. and Gour K. N. Journal I. M. A., Vol. XX No. 11 Aug. 1951, pp. 397.

P. N. Lake

1. Parkinsonism in Typhoid Fever..... (1947) Ind. Med. Gaz., LXXXII, March.

2. Emetine Therapy (1947) Clin. Soc. J. Med. Coll., Agra
3. Onset of Typhoid Fever with Aphasia (1947) J. Ind. Med. Ass., XVI, June

4. Poliomyelitis Affecting Neck Muscles (1947) The Antiseptic, November.
Ind. Med. Gaz., LXXXII, December.
5. Intrapleural Pressures in Congestive Heart Failure..... (1947) J. Ind. Ass., XVII, February.
6. Positive Wassermann's Reaction in Chorea..... (1948) Ind. Med. Gaz., LXXXIII, February.
7. Typhoid Fever in Children Treated with Penicillin and Sulphathiazole (1948) Ind. Med. Gaz., LXXXIII, April.
8. Treatment of Infantile Diarrhoea with Phthal Sulphathiazole (M. & B.)... (1948) Ind. Med. Gaz., LXXXIV, April.
9. Chorea following Benign Tertian Malaria..... (1949) Ind. Med. Gaz., LXXXIV, April.
10. Hiccough as a presenting symptom in Primary Atypical Pneumonia..... (1951) Ind. Med. Gaz., LXXXVI, May.
11. Portal Hypertension (Banti's Syndrome in a young boy..... (1951) Ind. Med. Gaz., LXXXVI, July.
12. Tuberculoma of the Myocardium... (1951) Ind. Med. Gaz., LXXXVI, November.
13. Non-articular Rheumatism (Fibrositis)..... (1951) Ind. Med. Gaz., LXXXVI, December.
14. Effect of dihydrostreptomycin in pleurisy with effusion..... (1952) Ind. Med. Gaz., LXVII, January.
15. Amyloidosis in Portal Cirrhosis..... (1952) Clin. Soc. J. Med. Coll. Agra.
16. Cerebral Air Embolism complicating Spontaneous Pneumothorax..... (1952) The Lancet, June 14.

Statement of Research Work Heart Clinic.

Physician Incharge— K. S. Mathur

Original Papers Published.

- | | | |
|---|------------------|------|
| 1. Acute Generalised Miliary Tuberculosis | → I. J. M. Sc. | 1952 |
| 2. Treatment of Congestive Heart Failure | → The Antiseptic | 1952 |

3. Intravenous Vin in the Treatment of Microcytic Hypochlormic Anemia — I. M. G. 1951
4. Coronary Circulation — C. S. J. 1952
5. Acute Ascending Myelitis Following the Administration of Neoarsphenamine — J. I. M. A. 1951
6. Asymptomatic Myocardial Infections — I. Heart. J. 1951
7. Cardiac Curiosis — I. J. M. Sc. 1951
8. Coronary occlusion Syndrome in Acute Falciparum Malaria * — I. Heart. J. 1950
9. Quinidine in Cardiac Arrhythmias — I. Heart. J. 1950
10. Splenomegaly in Congestive Heart Failure — I. Heart. J. 1949
11. Vitamins and their relation to Cardio-Vascular Disorders — The Antiseptic 1949
12. Hippuric Acid Synthesis Test as an Aid to Prognosis in congestive Heart Failure — I. M. G. 1948
13. A Presumptive Case of Bicuspid Aortic Valve — I. M. G. 1948
14. Pituitary Myxodeme — The Antiseptic 1947
15. Histopathological Changes in Liver in Congestive Heart Failure — I. M. G. 1947
16. Prognosis in Congestive Heart Failure — C. S. J. 1947

Gajra Raja Medical College, Gwalior

- | | | |
|--|--|--|
| 1. Solitary Plasmacytoma. | Indian Journal of Surgery, 23-4-51. | B. K. Aikat |
| 2. Malignant lymphoid Tissue
Tumours--the difficulties in their
Diagnosis. | Indian Journal of Surgery, 24-2-52. | —do— and
Dr. Miss L. V. Phatak,
F. R. C. S. (Edin), Professor
of Pathology, G. R. Medical
College, Gwalior, and
Dr. Miss Sheela Gupta,
M. B., B. S. |
| 3. Pelvic Tuberculosis in Women--
a preliminary report. | Indian Journal of Obst. & Gynaecology, Sept. 1952. | —do— |
|

 | | |
| 4. Review of Progress in Psycho-
surgery. | Indian Journal of Surgery, Vol. XI, No. 4, 1949. | —do— |
| 5. Prefrontal leucotomy for intract-
able pain. | Indian Journal of Surgery, Vol. XIII, No. 2, 1951. | —do— |
| 6. Frontal Cephalhematoma. | Indian Journal of Surgery, Vol. XIII, No. 4, 1951. | — do — |
| 7. Cryptococcosis of the Central
Nervous System. | Indian Journal of Surgery, Vol. XIV, No. 1, 1952. | —do— and
Dr. N. F. Lilauwala, M. B.,
B. S., M. R. C. P. (London),
F. R. C. P. (Edin.), D. C. M.
(London), Professor of Medi-
cine, G. R. Medical College. |

Meerut College, Meerut

*List of Research Papers published within the last three years
From the Chemical Laboratories, Meerut College, Meerut.*

- (A) Behaviour of *o*/chloronitro benzenes with hydrazine and hydrazine derivatives:—
- Part I—Preparation of 2-chloro-4:6-dinitro & 2-Bromo-4:6-Dinitrophenyl hydrazines and their hydrazone (S. S. Joshi & D. S. Deorha, *J. Ind. Chem. Soc.*, 1951, 34).
 - Part II—Preparation of some polynitro tolyl-hydrazines and their hydrazone (S. S. Joshi & D. S. Deorha, *J. Ind. Chem. Soc.*, 1952, 46).
 - Part III—Some substituted *o*-hydroxy-1:2:3-benzotriazoles and their acetyl derivatives (S. S. Joshi & D. S. Deorha, *J. Ind. Chem. Soc.*, 1952, 545).
- (B) Studies of nitro-m-cresols and their halogen derivatives.
- Part I, 6-Bromo-2:4-dinitro and 4-Bromo 2:6-dinitro-m-cresol (S. S. Joshi & S. P. Gupta, *J. Ind. Chem. Soc.*, 1949, 541).
- (C) Behaviour of Nitro-phenols with *p*-toluene sulphonyl chloride.
- Part (V) Abnormal behaviour of some dinitrophenols with methyl group in the meta position (S. S. Joshi & B. B. L. Kapur, *J. Ind. Chem. Soc.*, 1949, 539).
 - Part (VI) 6-Bromo-and 6-Chloro-2:4-dinitro-m-cresol (S. S. Joshi & S. P. Gupta, *J. Ind. Chem. Soc.*, 1952, 199).
- (D) Some trihalogenated nitrobenzenes and their derivatives.
- Part I. (S. S. Joshi & R. S. Gupta, *J. Ind. Chem. Soc.*, 1952, 193).
- (E) (viii) Chemical examinations of the seeds of *Abutilon Indicum*, G. Don., I. R. Gamhir & S. S. Joshi, *J. Ind. Chem. Soc.*, 1952, 451)
- (F) (ix) Refractor—a new Physical constant (S. S. Joshi & G. D. Tuli, *J. Chem. Soc.*, 1951, 837).
- (x) Refractive Index of substances Part I Value of n_{20}° C by extrapolation (S. S. Joshi & G. D. Tuli, *J. Ind. Chem. Soc.*, 1951, 450).
- List of Published work from the Botany Department Meerut College, Meerut, up to 1952.*
- BANERJI, M. L. (1951)—Abnormal spike of *Hemimelastachys Zeylanica*. *Curr. Sci.* 20: 213.
 - BANERJI, M. L. (1951)—Two new species of *Pimpinella*. *Jour. Bombay Nat. Hist. Soc.* 50: 1-3.
 - BANERJI, M. L. (1952)—Replacement of inflorescence by turions in *Caldesia Reniforme*. *Jour. Bombay Nat. Hist. Soc.* April, 685-7.
 - DEVI, SHANTI. (1952)—Studies in the Order Parietales. III. Vascular anatomy of the flower of *Carica papaya* L., with special reference to the structure of gynoecium. *Proc. Ind. Acad. Sci. B.* 38: 59-69.
 - MURTY, Y. S. (1952)—Placentation in *Paperaria*. *Phytomorphology* 2: 132-134.
 - PURI, V. (1947)—Studies in floral anatomy. IV. Vascular anatomy of the flower of certain species of the Passifloraceae. *Amer. Jour. Bot.* 34: 562-573.
 - PURI, V. (1948)—Studies in floral anatomy. V. On the structure and nature of corona in certain species of the Passifloraceae. *Jour. Ind. Bot. Soc.* 27: 130-149.
 - PURI, V. (1950)—Studies in floral anatomy. VI. Vascular anatomy of the flower of *Crataeva religiosa* Forst., with a special reference to the nature of the carpels in the Capparidaceae. *Amer. Jour. Bot.* 37: 363-370.
 - PURI, V. (1950)—On placentation in Angiosperms. *Proceedings VII Intern. Bot. Congres. Stockholm. Morph. & Anatomy Section.*
 - PURI, V. (1951)—The role of floral anatomy in the solution of morphological problems. *Bot. Rev.* 17: 471-553.
 - PURI, V. (1952)—Floral anatomy and inferior ovary. *Phytomorphology*. 2: 122-129.
 - PURI, V. (1952)—The Natural Philosophy of Plant Form by Agnes Arber. Review. *Phytomorphology*. 2: (2).
 - PURI, V. (1952)—Placentation in Angiosperms. *Bot. Rev.* 18: (6).
 - PURI, V. (1952)—Floral anatomy in relation to taxonomy. *Agra Univ. Res. Jour.* 1:

*List of Research Papers by Dr. Krishna Kumar Sharma, M.A, Ph. D.,
Professor, Meerut College during the last five years.*

- a. **The Indian Journal of Agricultural Economics, Bombay.**
 Paper: Bank of Issue and Rural Credit with Special references to India,
 August 1947, Conference Number of the Journal.

- b. **The Journal of Commerce, Allahabad**
 Papers

1. *Abolition of Zamindari*, in the Conference Number of the Journal, 1947, entitled Some leading Commercial Problems of India.
2. *Nationalisation of Central Banking In India*,
 (NoV. 1948, Vol. 1, No. 4)
3. *Land Mortgage Banking in India*
 (Sept. 1948, Vol. 1, No. 2 & 3).
4. *Some Aspects of Industrial Finance in India*.
 (Read at Aligarh Conference, 1949 and published in the Journal in Vol. 3, Numbers 9 to 12.
5. *India's First Five-Year Plan*.
 (September, 1951).
6. *Need of Revaluing the Rupee*
 (Sept. 1952 No. of the Journal)

- c. **Commerce, Churchgate Street, Bombay**

1. *Nationalisation of Central Bank of India*
 (May 1, 1948)
2. *Imperial Bank of India. Its Role After Nationalisation*
 (May 8, 1948)

- d. **Indian Co-operative Review, Madras**

- Future Pattern of Indian Agricultural Finance*
 (April-June, 1947)

- e. **The India Review, Madras**

1. *Stabilisation of Agricultural Prices*,
 (December, 1947)
2. *Rise in Bank Rate and Credit Control in India*
 (December 1951)

S. D. Degree College, Muzaffarnagar

Research work of Dharmendra Bhanu

1. The Raushanaria Movement and the Mughals.
Journal of Indian History, April 1951.
2. The Mughal-Maratha Treaty of April 1752.
Journal of Indian History, December 1982.

St. John's College, Agra

Zoology Deptt.

- Syed Musammil Ali.** "Studies on the Anatomy of the Tail in Sauria and Rhynchocephalia. II. *Chameleon zeylanicus* Laurenti." (*Proc. Ind. Acad. Sci.*, Vol. 28, pp. 151-165, 1948).
 "The Dermal Scutes of *Mabuya distimilis* Hallowell." (*Current. Science*, Nov. 1947, p. 348).
 "Studies on the Anatomy of the Tail in Sauria and Rhynchocephalia. III. *Varanus monitor* (Linne)." (*Proc. Ind. Acad. Sci.*, Vol. 30, pp. 155-167, 1949).
 "Studies on the Anatomy of the Tail in Sauria and Rhynchocephalia. IV. *Anguis fragilis*." (*Proc. Ind. Acad. Sci.*, Vol. 32, pp. 87-95, 1950).

Chemical Laboratory.

1. Condensation of aldehydes with malonic acid. Part XVIII.
 Condensation of 5-nitro, 2-hydroxybenzaldehyde.
 By K. C. Pandya, Omendra Swaroop Saxena and J. D. Tinku.
J. I. C. S., Vol. 24, No. 11. (1947).
 2. Condensation of aldehydes with malonic acid. Part XIX.
 Condensation of cinnamaldehyde.
 By Brahma Swaroop Bansal and K. C. Pandya.
J. I. C. S., Vol. 24, No. 11 (1947).
 3. Condensation of aldehydes with malonic acid. Part XX.
 Condensation of 3-nitro, 2-hydroxy benzaldehyde.
 By K. C. Pandya, Omendra Swaroop Saxena and J. D. Tinku.
J. I. C. S., Vol. 24, No. 11. (1947).
 4. Condensation of aldehydes with malonic acid. Part XXI.
 Condensation of 5-bromo-vanillin.
 By Prem Mohan Lal Mirchandani and K. C. Pandya.
J. I. C. S., Vol. 25, No. 2. (1948).
 5. Condensation of aldehydes with malonic acid. Part XXII.
 Condensation of 6-Bromo-piperonal.
6. Condensation of malonic acid with aldehydes. Part XXIII.
 With ethoxybenzaldehyde.
 By Ramesh Chandra Gupta and K. C. Pandya.
J. I. C. S., Vol. 25, No. 3, (1948).
 7. Condensation of aldehydes with malonic acid. part XXIV. With m-hydroxybenzaldehyde and seven of its haloid derivatives.
 By K. C. Pandya, Miss Rajini Bala Pandya and Raghu Nath Singh.
J. I. C. S., Vol. 29., No. 5, (1952).
 8. Condensation of aldehydes with malonic acid. Part XXV.
 Condensation of salicylaldehyde.
 By K. C. Pandya and Miss Rajani Bala Pandya.
J. I. C. S., Vol. 29., No. 7. (1952).
 9. Condensation of aldehydes with amides. Part XIII.
 Dihydrocinnamaldehyde.
 By K. C. Pandya and Raghu Raj Bhandari.
J. I. C. S., Vol. 24, No. 5 (1947).
 10. Condensation of aldehydes with amides. Part XIV.
 Condensation of u-heptaldehyde.
 By K. C. Pandya and Harpal Singh Sodhi.
Proc. Ind. Acad. Sci., Vol. 27, 1948.
 11. Condensation of aldehydes with amides Part XV.
 Of 6-Bromopiperonal.
 By K. C. Pandya and Ram Labhaya Sethi.
J. I. C. S., Vol. 25, No. 3 (1948).
 12. Condensation of aldehydes with amides. Part XVII.
 Of 5-chloro-and 3:5-dichlorosalicylaldehydes.
 By Ram Ghulam Singh Nigam and K. C. Pandya.
Proc. Ind. Acad. Sci., Vol. XXIX, 1949.

Agra University Press, Agra.