Journal of Ramanujan Society of Mathematics and Mathematical Sciences

J.R.S.M.A.M.S. JOURNAL (Half Yearly)

Vol. 6, No. 2, December 2017 ISSN : 2319-1023

$$\sum_{n=0}^{\infty} \frac{q^{n(n-1)}}{[q;q]_n} = \frac{1}{[q^2,q^3;q^5]_\infty} + \frac{1}{[q,q^4;q^5]_\infty}$$

Published by : Ramanujan Society of Mathematics and Mathematical Sciences
Rajyashree Bhavan (Van Vihar Modh) Phoolpur, Madarpur, Jaunpur-222002 (U.P.) INDIA

Corresponding Address : Dr. S.P. Singh, Dept. of Mathematics, TDPG College, Jaunpur - 222002 (UP) INDIA

Journal of Ramanujan Society of Mathematics and Mathematical Sciences

Published by :
Ramanujan Society of Mathematics and Mathematical Sciences
Rajyashree Bhavan (Van Vihar Modh), Phoolpur, Madarpur
Jaunpur-222002 (U.P.) India

Corresponding Address :
Dr. Satya Prakash Singh,
Dept. of Mathematics, TDPG College,
Jaunpur - 222002 (UP) INDIA

Editor-in-Chief

Dr. Vijay Yadav
Department of Mathematics & Statistics,
S.P.D.T. College, Andheri (E)
Mumbai - 400059, India
E-mail : vijaychottu@yahoo.com
Tel/Mob.: 08108461316

Editorial Secretary

Dr. S.N. Singh
Department of Mathematics
T.D.P.G. College, Jaunpur-222002 (U.P.) India
E-mail : snsp39@yahoo.com
Tel/Mob.: 09451161967

Managing Editor

Dr. A.K. Singh
Department of Science & Tech.
Technology Bhavan, N.Delhi -110016
E-mail : ashokk.singh@nic.in

Secretary of Publication

Dr. Satya Prakash Singh
Department of Mathematics
T.D.P.G. College, Jaunpur-222002 (U.P.) India
E-mail : snsp39@gmail.com
Tel/Mob.: 09451159058

Editorial Board :

- Prof. B.C. Berndt, Dept. of Maths., University of Illinois, 1409, West Green St., Urbana, IL 61801, USA
- Prof. H.M. Srivastava, Professor Emeritus, Department of Mathematics and Statistics University of Victoria, Victoria, British Columbia V8W 3R4, Canada
- Prof. S. Bhargava, Mysore
- Prof. R.K. Saxena, 34, Panch Batti Chauraha, Ratnada, Jodhpur, Rajasthan
- Prof. Mahi R. Singh, 1151 Richmond Street London, Ontario, Canada, N6A 3K7
- Prof. Pushpa N. Rathie, Federal University of Ceara, Fortaleza, CE, Brazil.
- Prof. Sundar Lal, Ex-Vice Chancellor, VBSPU, Jaunpur
- Prof. M.A. Pathan, Aligarh Muslim University, Aligarh
- Prof. R.Y. Denis, Gorakhpur University, Gorakhpur
- Prof. N.K. Thakare, Pune University, Pune
- Prof. K. Srinivasa Rao, Chennai
- Prof. K.K. Azad, Dept. of Maths., Allahabad University, Allahabad-211001
- Prof. Shaun Cooper, Institute of Information & Mathematical Sciences, Massey University, Albany, Auckland, New Zealand
- Prof. S. Deo, Harish Chandra Research Institute, Allahabad
- Prof. P.V. Arunachalam, 526, Balaji Colony, Andhra Bank Road, Tirupati (A.P.)
- Prof. K.C. Prasad, Ranchi University, Ranchi
- Prof. U.C. De, Calcutta University, Kolkata
- Prof. Chongdar, Kolkata
- Prof. M.S. Mahadev Naika, Banglore
- Prof. K.R. Vasuki, Mysoore

Advisory Editorial Board

Prof. M.A. Pathan
Department of Mathematics,
Aligarh Muslim University, Aligarh (UP) India
E-mail : mapathan@gmail.com

Prof. K.C. Prasad
Department of Mathematics,
Ranchi University, Ranchi India
E-mail : kcprasad1@rediffmail.com

Prof. M.S. Mahadeva Naika
Department of Mathematics,
Bangalore University, Bangalore-560001 India
E-mail : msmnaika@rediffmail.com

Prof. A.K. Rathie
Department of Mathematics,
School of Mathematical & Physical Sciences,
Central University of Kerala Periye
P.O. Kasaragod-671316 Kerala India
E-mail : akrathie@cukerala.ac.in

Prof. R.K. Yadav
Professor of Mathematics,
Department of Mathematics & Statistics,
J.N. Vyas University, Jodhpur-342005 India
E-mail : rkmdyadav@gmail.com

Dr. B.P. Singh
Department of Science and Technology,
Technology Bhavan, New Mehrauli Road
New Delhi-110016
E-mail : bpratap@nic.in

Associate Editors

Prof. Sunder Lal
Department of Mathematics,
Agra University, Agra (UP) India
E-mail : sunder_lal2@rediffmail.com

Prof. R.C. Srivastava
Professor and Head
Department of Mathematics & Statistics
DDU Gorakhpur University, Gorakhpur (UP) India
E-mail : rcs.shockwaves@gmail.com

Prof. N.N. Pandey
Principal, Prahladrai Dalmia Lions College of
Commerce and Economics,
Sunder Nagar, S.V. Road, Malad(W), Mumbai-400064
E-mail : pandey.nn@gmail.com

Prof. Kanti Pandey
Department of Mathematics & Astronomy
University of Lucknow, Lucknow (UP) India
E-mail: pandey_kanti@yahoo.co.in

Prof. Tarkeshwar Singh
Department of Mathematics,
BITS, Goa Campus, Goa, India
E-mail: stsingh2003@gmail.com

Prof. Manoranjan Kumar Singh
Professor of Mathematics, Magadh University
Bodh Gaya, Gaya (Bihar) India
E-mail: drmksingh_gaya@yahoo.com

Prof. Manoj Sharma
HOD, department of Applied Mathematics
RJIT, BSF Academy Tekanpur, Gwalior (MP) India
E-mail: manoj240674@yahoo.co.in

Prof. S. Ahmad Ali
Head, Department of Mathematics &
Dean, School of Applied Sciences,
Babu Banarasi Das University, Faizabad Road,
Lucknow 220628 (U.P.) India
E-mail: ali.bbdu@gmail.com

Dr. J. Vasundhara
Department of Mathematics and GVP
Prof. V.Lakshmikantham Institute for Advance studies
GVP College of Engineering Madhurawada
Viakhapatnam-530048, India
E-mail: jvdevi@gmail.com

Dr. Koushik Ghosh
Department of Mathematics
University Institute of Technology
University of Bardmaan,
Bardmaan (WB) India
E-mail: koushikg123@yahoo.co.uk

Dr. Jyotindra Prajapati
Department of Mathematics
Faculty of Technology and Engineering,
Marwadi Education Foundation Group of Institute (MEFGI),
Rajkot-360003 (Gujarat) India
E-mail: jyotindra18@rediffmail.com

Dr. Minakshi Rana
School of Mathematics and Computer Applications,
Thapar University, Patiala, (Punjab) India
E-mail: mrana@thapar.edu

Dr. Prakriti Rai
Department of Mathematics
Amity University, Noida (U.P.)
E-mail : prakritirai.rai@gmail.com

Dr. Vishnu Narayan Mishra
Applied Mathematics & Humanities Dept.,
S.V.N.I.T., Surat - 395007 (Gujarat), India.
Email id: vishnunarayanmishra@gmail.com

Dr. Rama Jain
Department of Mathematics
M.V.P.G. College, Lucknow
E-mail : ramajain26@yahoo.com

Dr. Sunil Singh
Department of Mathematics,
Sydenham College of Commerce and Economics,
Mumbai (Maharashtra) India
E-Mail: drsunilsingh912@gmail.com

Dr. Jay Prakash Yadav
Department of Mathematics and Statistics,
Prahladrai Dalmia Lions College of Commerce and Economics,
Sunder Nagar, S.V. Road, Malad(W), Mumbai-400064
E-mail: jayp1975@gmail.com

Dr. Rajeev Singh
Department of Mathematics,
P.B.P.G. College, Pratapgarh (U.P.) India
E-mail: profrajeevsingh@gmail.com

Editorial Office :
Dr. Satya Prakash Singh,
263, Line Bazar,
Near Z.A. Khan Care Clinic,
Husainabad, Line Bazar,
Jaunpur - 222002 (U.P.) India
E-mail : jrsmams@yahoo.com; jrsmams@gmail.com

Dr. K.B. Yadav
Department of Mathematics,
T.D.P.G. College, Jaunpur (U.P.) India

Dr. Deepmala
Visiting Scientist, SQC & OR Unit,
Indian Statistical Institute, 203 B. T. Road,
Kolkata – 700 108 (West Bengal), India
Email: deepmaladm23@gmail.com

JOURNAL OF RAMANUJAN SOCIETY OF MATHEMATICS AND MATHEMATICAL SCIENCES

The Journal of Ramanujan society of Mathematics and Mathematical Sciences is devoted to the publication of original research work of high quality in all areas of Mathematics and Mathematical Sciences and shall publish one volume of two numbers each year. Papers intended for publication in the Journal should be submitted in duplicate along with the electronic file (prepared in Page Maker / MS word Editor / Latex preferably) of the paper to the Editor in Chief or Editorial secretary in double space, with title, author(s) name(s), abstract and subject classification. Name(s) and address (es) of the author(s) should be given below the little of the paper, References should be numbered and listed in alphabetical order at the end of the article with serial number in the manuscript as given below;

1. Hardy, G.H.: S. Ramanujan, twelve lectures on the subject suggested by his life and work, 1940, Cambridge Univ. Press.

2. Maddox, I.M.: Spaces of strongly summable sequences Quart. J. Math. (Oxford) (2), 18 (1967), 345-355.

A contribution towards the cost of publication of papers accepted in the journal, at rate of Rs. 400 (US $15) per printed page shall be charged. The authors are requested to arrange from their institution or publication grants under their research schemes. The (senior) author will get 10 reprints of the published paper. The price of each number of the journal will be Rs. 500.00 in India and US $ 100 elsewhere. The order for the copy (copies) of the journal along with the amount may be sent to the Editor-in-chief by demand draft favoring ***Ramanujan Society of Mathematics and Mathematical Sciences*** and payable at Jaunpur (INDIA) at the address given above.

Statement about ownership and other particulars about Journal of Ramanujan Society of Mathematics and Mathematical Sciences.

Place of Publication	: Rajyashree Bhavan (Van Vihar Modh) Phoolpur, Madarpur, Jaunpur - 222002 (U.P.) INDIA
Periodicity of its Publication	: Twice a year
Printer, Publisher and Owner	: Ramanujan Society of Mathematics and Mathematical Sciences, Rajyashree Bhavan (Van Vihar Modh) Phoolpur, Madarpur, Jaunpur - 222002 (U.P.) INDIA
Editor Name	: Dr. Vijay Yadav
Nationality	: Indian
Address for correspondance	: Dr. S.P. Singh, Dept. of Mathematics, TDPG College Jaunpur - 222002 (U.P.) INDIA
E-mail Address	: jrsmams@yahoo.com, jrsmams@gmail.com
Website	: http://www.rsmams.org
Press	: Media Computer, Jaunpur (U.P.)

I, Vijay Yadav here by declare that particulars given are true to the best of my knowledge and belief.

Dated : December, 2017

Dr. Vijay Yadav
Editor

Journal of Ramanujan Society of Mathematics and Mathematical Sciences

ISSN : 2319-1023

Volume 6, No. 2, December 2017

CONTENTS

1. Marshall-Olkin-Rathie-Swamee Distribution and Applications **01-22**
   Ronald T. Nojosa and Pushpa N. Rathie

2. On Certain Polynomials Associated with the Multivariable Aleph-function **23-30**
   Frédéric Ayant

3. The Backward Operator of Double Almost $(\lambda_m \mu_n)$ Convergence in χ^2 Riesz Space Defined by a Musielak-Orlicz function **31-44**
   Vandana, Deepmala, N. Subramanian and Lakshmi Narayan Mishra

4. A Note on Theta Hypergeometric Series **45-60**
   Satya Prakash Singh, Bindu Prakash Mishra, Mohmmad Shahjade and Vijay Yadav

5. Integrals Involving the Aleph-function of Several Variables **61-68**
   Frédéric Ayant

6. Lichhavi Numeral Systems in Nepal **69-80**
   Eka Ratna Acharya

7. An Interesting Observation on Ramanujan Number 1729 **81-84**
   Sandeep Kumar Bhakat

8. The Place of Problems in the Curriculum of Mathematics **85-90**
   Narendra Kumar Singh and Ajay Kumar Yadav