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*(Dedicated to Honor Dr. R. C. Singh Chandel on His 75<sup>th</sup> Birth Anniversary Celebrations)*

This Special Volume of  
**JÑĀNĀBHĀ**  
is Being Dedicated to Honor  
**DR. R. C. SINGH CHANDEL**  
on His 75<sup>th</sup> Birth Anniversary Celebrations



**DR. RAM CHARAN SINGH CHANDEL**  
(Born : July 07, 1945)

**DR. R. C. SINGH CHANDEL (RAM CHARAN SINGH CHANDEL) :**  
**A DOWN-TO-EARTH PERSON WITH DELIGENCE, DEDICATION AND MODESTY**

By

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I know Dr. R. C. Singh Chandel since July 1964 when both of us were first year students in Master's Program in Mathematics at Government Science College, Gwalior, a premier institute of learning of Madhya Pradesh those days. When the university center of learning were not established he was a shy young lad and innocent looks as with few words as he came from a rural background of the Nagla Fauzi a Village of bordering Uttar Pradesh State, India, where he born on 7<sup>th</sup> July, 1945. He did his schooling at Sirsaganj, Jasrana and graduation from Narain College, Shikohabad (Agra University, Agra) of Uttar Pradesh.

During Masters' program he was a silent and deligent student unlike two other top position competitors students, myself and one Gopal Das Lakhani, who is in USA at present. We two were together again when joined Ph.D. program in 1966 jointly at SATI, Vidisha registered at Vikram University, Ujjain, MP, India under the same supervisor Professor P. M. Gupta but on different topics. We shared the same apartment in Vidisha and were couleague round the clock. He got married during this period with Ms. Madhavi Chandel, a silent well educated and dedicated house wife who stood solid behind Dr. Chandel throughtout her life till she expired about 9 year back. Still RCS Continued his hard work for the VPI and Journal *Jñānābha* even having responsibility of house hold.

After completing Ph.D. he joined as Lecturer at D. V. Postgraduate College, Orai (Bundelkhand University, Jhansi) Uttar Pradesh located at Jhansi-Kanpur highway, while I parted his company to join as postdoctoral fellow at SATI first and then at M.A.C.T. (MANIT) Bhopal. I was little bit surprised by his decision to join a semi Government institution, that too at a town not known as an educational destination. But I proved wrong as he became asset to the institution by developing it as center of Mathematical Education and Research. He dedicated his entire teaching carrier to D. V. Postgraduate College, Orai, working at successive higher positions till he retired as Associate Professor of Mathematics in 2008. His unofficial affiliation to the college still continues due to establishment of a Research society called 'Vijñāna Parishad of India' (VPI) and launching simultaneously its research journal named as ' *Jñānābha* ' pronounced as ज्ञानाभ in Hindi. I was keenly and anxiously supporting him and contributed a landmark research articles in it.

Vijñāna Parishad of India has become synonymous with Dr. R. C. Singh Chandel and D. V. Postgraduate College, Orai, which is now completing fifty years of glorious journey with support from Professor H. M. Srivastava, University of Victoria, B. C., Canada as Foreign Secretary and Chief Editor, *Jñānābha*. Eminent mathematicians are on the Editorial Board from all over the world while Dr. Chandel is its Founder Executive Editor. This journal is recognized internationally and reviewed regularly among others by Zentralblatt für Mathematik Germany and Mathematical Reviews, USA, This journal is already recognized by the University Grant Commission of India. With Dr. Chandel's almost single handed efforts *Jñānābha* has achieved new highlights and circulated throughout the country and abroad, VPI saw a new dimension in terms of National and International conferences hosted at leading Institutions of North India including MANIT, Bhopal, Netaji Subhas Institute Delhi and BITS, Pilani with participants from different parts of India and abroad. It grew fast and collaborated with other leading societies like Gwalior Academy of Mathematical Sciences and Society for Special Functions and Applications of which Dr. Chandel is an integral part. VPI is also a member of prestigious TMC (The Mathematics Consortium).

At the same time R. C. S. Chandel created his own pitch in the field of Mathematics by publishing large number of research papers and books (List enclosed) and delivering Lectures all India and abroad. He supervised about twenty Ph.D. scholars and visited following Institutions : Memorial University of Newfoundland, St. John's, Canada, University of Victoria, Victoria, B. C., Canada. He was also offered as Associate Professor in University of Minnesota, Duluth, USA but he did not join due to some personal circumstances.

He participated, gave invited talks and chaired sessions in International Conference at University of Newfoundland St. John's, Canada, Summer Meeting of American Mathematical Society (Chicago), Conference of American Math.

Society and Mathematics Association of America at Wyoming and delivered lecture at Fourth ISAAC Congress at York University, Toronto, Canada.

He has several prestigious awards and honours to his credit including life membership of several academic societies. Some of them are given below:

### **Awards and Honors:**

1. *Life-Long Achievements Award* 2019 : Vijñāna Parishad of India for Life-Long Outstanding Contribution to his subject and Life-Time Whole Hearted Distinguished and Dedicated Services to Vijñāna Parishad of India and its Journal *Jñānābha*.
2. *Bharat Ratn Mother Teresa Gold Medal Award*, 2019 : Global Economic Progress Research Association, Tamil Nadu, India.
3. *Senior Rotary Distinguished Service Award*, 2019 : Rotary club of Orai (RI District 3110).
4. *Biography Published by : The Marquis Who's Who in the World- 20th Edition*, 2003.
5. *Best Teacher Award and Gold Medal*, 2001 : Bundelkhand University, Jhansi, Uttar Pradesh, India for outstanding contribution in Teaching, Research and National Development.
6. *The Twentieth Century Award for Achievement*, 2000 : International Biographical Institute, Cambridge, England.
7. *Outstanding Man of the 20<sup>th</sup> Century*, 1999: American Biographical Institute, USA.
8. *Distinguished Service Award* 1996 : Vijñāna Parishad of India for the outstanding contribution to Mathematics and Distinguished Services rendered to Vijñāna Parishad of India.
9. *Outstanding Youth Person of District Jalaun*, Uttar Pradesh, India, 1977: JCI, Orai.

### **Fellowship Award:**

1. *Paul Harris Fellow Award (PHF)*, 2018 : Rotary International .
2. *Honorary Elected Fellow (FVPI)*, 2008 : Vijñāna Parishad of India.

### **Life Member of various National or International Societies:**

1. National Academy of Sciences, India.
2. Vijñāna Parishad of India.
3. Indian Math, Society.
4. BHU Math, Society.
5. SSFA (Society for Special Functions and Applications, India).
6. GAMS (Gwalior Academy of Mathematical Sciences).
7. CONSORTIUM.
8. Annual Member of American Math, Society for last 20 years.

### **Social Services: Rotary International since last 38 years**

1. Chairman Literacy Volunteer Management : RI District 3110 (2020-21).
2. Rotary District Secretary (Youth Promotion) : RI District 3110 (2019- 20).
3. President : Rotary Club of Orai, RI District 3110 [ 1996-97, 2016-17, 2017-18].
4. Rotary District Management Committee, District Health and Family Welfare Authority Jalaun, Uttar Pradesh, India, (2000).
5. Rotary International, District 3110, Pulse Polio Coordinator (1997-98).

### **Books Authored** (See Appendix)

*Single Authored* : 4 Books for Graduate classes.

*Co-authored* : 1 Book for B.E. Classes.

8 Books for Graduate classes.

### **List of Research Publications** (See Appendix)

**We his colleagues and friends feel proud at the achievements of an un parallel personality of Dr. R. C. Singh Chandel. I am sure his parents Late Shri Bridawan Singh and Late Smt. Champa Devi will shower heavenly blessings as well as his worthsons Parmatma, Onkar Singh (Washington, USA) and Ram Chandel (California, USA) will be bestowing their heart felt admiration on the completion of seventy five gracious years of age of Dr. Ram Charan Singh Chandel.**

## APPENDIX

### List of Publications

1. Generalized Laguerre polynomials and the polynomials related to them, *Indian J. Math.*, **11** (1969), 57-66.
2. A short note on generalized Laguerre polynomials and the polynomials related to them, *Indian J. Math.*, **13** (1971), 25-27.
3. Generalized Laguerre polynomials and the polynomials related to them II, *Indian J. Math.*, **14** (1972), 149-155.
4. Generalized Laguerre polynomials and the polynomials related to them III. *Jñānābha Sect. A*, **2** (1972), 49-58.
5. Operational representations and hypergeometric functions of three variables, *Proc. Nat. Acad. Sci., India*, **39** (A) (1969), 217-222.
6. The products of certain classical polynomials and the generalized Laplacian operator, *Ganita*, **20** (1969), 79-87. Corrigendum *Ganita*, **23** (1972), 90.
7. Fractional integration and integral representations of certain generalized hypergeometric functions of several variables, *Jñānābha, Sect. A*, **1** (1971), 45-56.
8. On the  $G$ -function of two variables, *Jñānābha, Sect. A*, **1** (1971), 84-91 [With R. D. Agrawal].
9. Generalized Hermite polynomials, *Jñānābha, Sect. A*, **2** (1972), 19-27.
10. On some multiple hypergeometric functions related to Lauricella functions, *Jñānābha Sect. A*, **3** (1973), 119-136.
11. A new class of polynomials, *Indian J. Math.*, **15** (1973), 41-49.
12. A further note on the class of polynomials  $T_n^{(\alpha,k)}(x, r, p)$ , *Indian J. Math.*, **16** (1974), 39-48.
13. A further generalization of the class of polynomials  $T_n^{(\alpha,k)}(x, r, p)$ , *Kyunpook Math. J.*, **14** (1974), 45-54.
14. Operational representations of certain generalized hypergeometric functions in several variables, *Ranchi Univ. Math. J.*, **7** (1976), 56-60.
15. On some generalized Jacobi polynomials, *Ranchi Univ. Math. J.*, **6** (1975), 54-61 [with H. C. Agrawal].
16. Generalized Rice polynomials, *Jour. Maulana Azad College Tech.* **8** (1975), 67-71 [with R. S. Pal].
17. A note on Stirling numbers and polynomials, *Jour. Maulana Azad College Tech.* **9** (1976), 143-146 [H. C. Yadava].
18. On some operational relationships, *Indian J. Math.* **19** (1977), 173-179 [with H. C. Agrawal].
19. Generalized Stirling numbers and polynomials, *Pub. del. Institute Mathematique, tome 22* (36) (1977), 145-149.
20. Some polynomials of R. Panda and the polynomials related to them, *Bul. Inst. Math. Acad. Sinica*, **7** (1979), 145-149. [with S. K. Bhargava]
21. Some generating functions for certain polynomials systems in several variables, *Proc. Nat. Acad. Sci. India*, **51** (1981), 133-138 [with H. C. Yadava]
22. A note on binomial and exponential identities, *Ranchi Univ. Math. J.*, **10** (1979), 33-38 [With B. N. Dwivedi]
23. Corrigendum to "On a new class of polynomials and the polynomials related to them" by Sunil Kumar Sinha. *Indian J. Math.*, **19** (1977), 141-148; *ibid* **21** (1979), 207-208.
24. A note on generating functions for certain polynomial systems *Ranchi Univ. Math. J.*, **10** (1979), 62-66 [with H. C. Yadava]
25. Generalized Whittaker transforms of hypergeometric functions of several variables, *Bul. Inst Math. Acad. Sinica, China*, **8** No. 4 (1980), 595-601 [with B. N. Dwivedi].
26. Srivastava and Daoust functions of several variables, *Pure Appl. Math. Sci.*, **14** No. 1-2 Sept (1981), 53-59 [with B. N. Dwivedi]
27. Operational representations of hypergeometric functions of four variables, *Pure Appl. Math. Sci.*, **16** (1982), 43-52 [with B. N. Dwivedi].
28. A generalization of certain classes of polynomials. *Indian J. Pure Appl. Math.*, **12** (1981), 103-110 [with S. K. Bhargava]
29. A further note on the polynomials of R. Panda and the polynomials related to them, *Ranchi Univ. Math. J.*, **10** (1979), 74-80 [with S. K. Bhargava]
30. Multidimensional Whittaker transforms, *Indian J. Math.*, **24** (1982), 49-53 [with B. N. Dwivedi]
31. A class of polynomials and the polynomials related to them, *Indian J. Math.*, **24** (1982), 41-48. [with S. K. Bhargava]
32. A note on some generating functions, *Indian J. Math.*, **25** (1983), 185-188.
33. A problem on heat conduction, *The Math. Student*, **46** (1978), 240-247.
34. On some associated polynomials, *Ranchi Univ. Math. J.*, **11** (1980), 13-19 [with B. N. Dwivedi]
35. A note on some generating functions for a certain class of polynomials, *Vijñāna Parishad Anusandhan Patrika*, **25** (1982), 25-30 [with B. N. Dwivedi]
36. A problem on the cooling of a heated cylinder, *Jour. MACT*, **15** (1982), 99-103] (with S. K. Bhargava)

37. A new class of polynomials and the polynomials related to them, *Rev. Tec. Ing. Univ. Zulia*, 7 No. 1 (1984), 63-67 [with R. S. Chandel]
38. Two transformation formulas for the generalized multiple hypergeometric function of Srivastava and Daoust, *Indian J. Pure Appl. Math.*, **15** (6) (1984), 633-640 [with Anil Kumar Gupta]
39. A binomial analogue of Srivastava's Theorem, *Indian J. Pure Appl. Math.* **15** (4) (1984), 383-386 [with H. C. Yadava]
40. Heat conduction and multiple hypergeometric function of Srivastava and Daoust, *Indian J. Pure Appl. Math.*, **15**(4) (1984), 371-376 [with H. C. Yadava]
41. Applications of Srivastava Theorem, *Indian J. Pure Appl. Math.*, **15** (1984), 1315-1318 [with H. C. Yadava]
42. Additional applications of binomial analogue of Srivastava's Theorem, *Indian J. Pure Appl. Math.*, **27** (1985), 137-141 [with H. C. Yadava]
43. Heat conduction and generalized Kamp de Friet function of Srivastava and Daoust, *Ranchi Univ. Math. J.*, **14** (1983), 1-10 [with S. K. Bhargava]
44. Recurrence relations of multiple hypergeometric functions of several variables, *Pure Appl. Math. Sci.*, **21** (1985), 65-70 [with Anil Kumar Gupta]
45. Heat conduction and  $H$ -function of several variables *Jour. MACT*, **12** (1984), 85-92 [with Anil Kumar Gupta]
46. Applications of Srivastava's hypergeometric function of three variables, *Jñānābha*, **15**, (1985), 65-69 [with B. N. Dwivedi]
47. Multiple hypergeometric functions related to Lauricella functions, *Jñānābha*, **16** (1986), 195-209 [with Anil Kumar Gupta]
48. Use of multivariable  $H$ -function of Srivastava and Panda in cooling of a heated cylinder, *Pure Appl. Math. Sci.*, **25** (1987), 43-48 [with Anil Kumar Gupta]
49. Recurrence relations of multiple hypergeometric function of Srivastava and Daoust and the multivariable  $H$ -function of Srivastava and Panda, *Indian J. Pure Appl. Math.*, **18** (1987), 347-359. [with Anil Kumar Gupta].
50. A problem on heat conduction in a finite bar, *Jour. MACT*, **19** (1986), 91-95 [with Anil Kumar Gupta]
51. Further applications and extensions of the addition theorems of Srivastava, Lavoie and Tremblay, *Indian J. Pure Appl. Math.*, **18** (1987), 830-834 [with S. Sahgal].
52. Karlsson's multiple hypergeometric function and its confluent forms, *Jñānābha*, **19** (1989), 173-185 [with P. K. Vishwakarma]
53. Fractional integration and integral representations of Karlsson's multiple hypergeometric function and its confluent forms, *Jñānābha*, **20** (1990), 101-110 [with P. K. Vishwakarma].
54. A multivariable  $H$ -function of Srivastava and Panda and its applications in a problem on electrostatic potential in spherical regions, *Jour. MACT*. **23** (1990), 39-46 [with R. D. Agarwal and H. Kumar]
55. A multivariable analogue of Panda's polynomials, *Indian J. Pure Appl. Math.*, **21** (12) (1990), 1101-1106 [with S. Sahgal]
56. A class of polynomials in several variables, *Ganita Sandesh*, **4** (1990), 27-32 [with R. D. Agarwal and H. Kumar].
57. A multivariable analogue of Gould and Gould-Hooper's polynomials, *Indian J. Pure Appl. Math.*, **22** (3) (1991), 225-229 [with S. Sahgal].
58. A binomial analogue of the class of addition theorems of Srivastava, Lavoie and Tremblay and its applications, *Proc. VPI*, **1** (1989), 145-148.
59. A remark on "Hypergeometric functions of four variables I" by Chhaya Sharma and C. L. Parihar, *{Indian Acad. Math.*, **11** (2) (1989), 121-133}, *Proc. VPI*, **2** (1990), 113-115 [with H. Kumar]
60. Another multivariable analogue of Gould and Hopper's polynomials, *Pure Math. Manuscript*, **9** (1990-1991), 125-135 [with Abha Tiwari].
61. Unified study of two general classes of functions, *Pure Math. Manuscript*, **9** (1990-1991), 111-123 [with Shashi Agrawal]
62. A generalization of a class of polynomials, *Jñānābha*, **21** (1991), 19-25 [with Shashi Agrawal]
63. Generating relations involving hypergeometric functions of four variables, *Pure Appl. Math. Sci.*, **34** (1991), 15-25 [with Abha Tiwari]
64. Multivariable analogue of Gould and Hooper's polynomials defined by Rodrigues' formula, *Indian J. Pure Appl. Math.*, **22** (1991), 757-761 [with Abha Tiwari]
65. A multivariable analogue of Hermite polynomials, *Ganita Sandesh*, **5** (1991), 92-95 [with Abha Tiwari]
66. Fractional derivatives of confluent hypergeometric forms of Karlsson's multiple hypergeometric function, *Pure Appl. Math. Sci.*, **35** (1992), 31-39 [with P. K. Vishwakarma]

67. An integral involving sign functions, exponential functions, the Kamp de Friet function and the multivariable  $H$ -function of Srivastava and Panda, and its applications in potential problem on a circular disk, *Pure Appl. Math. Sci.*, **35** (1992), 59-69 [with R. D. Agrawal and H. Kumar].
68. Hypergeometric functions of four variables and their integral representations, *Math. Education*, **26** (1992), 76-94 [with R. D. Agrawal and H. Kumar].
69. Two variables analogue of Gould and Hopper's polynomials, *Jour. MACT*, **25** (1992), 63-69 [with R. D. Agrawal and H. Kumar].
70. Unified presentation of two general sequences of functions, *Jñānābha*, **22** (1992), 13-22 [with Shashi Agrawal]
71. Binomial analogues of the class of addition theorems of Srivastva, Lovoie and Tremblay, *Jñānābha*, **22** (1992), 23-29 [with Shashi Agrawal]
72. Fourier series involving the multivariable  $H$ -function of Srivastava and Panda, *Indian J. Pure Appl. Math.*, **23** (1992), 343-357 [with R. D. Agrawal and H. Kumar]
73. Velocity coefficient of chemical reaction and Lauricella's multiple hypergeometric function, *Math. Student*, **63** (1993), 1-4 [with R. D. Agrawal and H. Kumar]
74. Multiple hypergeometric function of Srivastava and Daoust and its applications in two boundary value problems, *Jñānābha* **23** (1993), 97-103 [with Abha Tiwari].
75. Multivariable analogues of a class of polynomials, *Jñānābha* **23** (1993), 105-113 [with Shashi Agrawal]
76. Multidimensional fractional derivatives of multiple hypergeometric functions of several variables, *Jñānābha*, **24** (1994), 19-27 [with P. K. Vishwakarma]
77. Fractional derivatives of certain generalized hypergeometric functions of several variables, *Jour. Math. Anal. Appl.*, **184** (1994), 560-572 [with H. M. Srivastava and P. K. Vishwakarma].
78. A multilinear generating function, *Math Ed. (Siwan)*, **28** (1994), 32-37 [with Abha Tiwari]
79. On some relations between hypergeometric functions of three and four variables, *Jñānābha*, **26** (1996), 72-82 [with P. K. Vishwakarma]
80. Fractional derivatives of the multiple hypergeometric functions of four variables, *Jñānābha*, **26** (1996), 83-87 [with P. K. Vishwakarma].
81. Some probability distributions and expectations associated with multivariate beta and gamma distributions involving multiple hypergeometric functions of Srivastava and Daoust, *Jñānābha*, **27** (1997), 131-137 [with P. K. Vishwakarma].
82. Some more inequalities involving Fox's  $H$ -function, *Jñānābha*, **28** (1998), 133-140 [with H. Kumar].
83. Determination of phase shift difference for binomial potential function, *Jñānābha*, **28** (1998), 141-146 [with H. Kumar].
84. Phase shifts involving multiple hypergeometric functions of Srivastava and Daoust, *Jñānābha*, **29** (1999), 117-122 [with H. Kumar and R. D. Agarwal]
85. Some expectations associated with Multivariate Gamma and Beta Distributions involving the multiple hypergeometric function of Srivastava and Daoust, *Jñānābha*, **30** (2000), 9-16 [with P. K. Vishwakarma].
86. On some multidimensional integral transforms of Srivastava and Panda's  $H$ -function of several complex variables, *Jñānābha*, **30** (2000), 125-130 [With Kamendra Kumar]
87. Integrals involving multiple hypergeometric functions of several variables through difference operator approach, *Jñānābha* **31/32** (2002) 151-157. (with S. S. Chauhan)
88. Remarks on "Certain integrals involving hypergeometric functions of three and four variables" by Sunil Joshi and S. S. Bhati (*Jñānābha*, 27 (1997), 93-98), *Jñānābha*, **31/32** (2002) 167 (with S. S. Chauhan)
89. Multidimensional Laguerre transforms, *Jour. Pure Math.*, **20** (2003) 59-72 (with S. S. Chauhan)
90. On two boundary value problems, *Jñānābha*, **31/32** (2002), 89-104. (with S. Sengar)
91. A problem on heat conduction in a rod under the Robin condition, *Jñānābha*, **33** (2003), 131-138. (with S. Sengar)
92. Hypergeometric functions of four variables, *Pure Appl. Math. Sci.*, **58** (2003), 7-18, (with S. Sharma)
93. Temperature distribution due to population growth of interacting multispecies in the limited environment, *Mathematics and Information Theory: Recent topics and applications*, (Editor V. K. Kanpur), Anannya Publishers, New Delhi, India, 2004 [with Hemant Kumar]
94. Fractional derivatives of our hypergeometric functions of four variables, *Jñānābha*, **34** (2004), 113-132. (with S. Sharma).
95. Two boundary value problems, *Indian J. Theoretical Physics*, **53** (4), (2005), 339-350. (with Yogesh Kumar)
96. Generalized multidimensional Laguerre transforms, *Jñānābha*, **35** (2005), 17-27 (with Kamalendra Kumar)
97. On a general class of generating functions and its applications, *Jñānābha*, **35** (2005), 67-72 (with H. Kumar and S. Sengar)
98. On some generalized results of fractional derivatives, *Jñānābha*, **36** (2006), 105-112 (with Yogesh Kumar)

99. Applications of the generalized polynomials of several variables of Srivastava and Multivariable  $H$ -function of Srivastava-Panda in boundary value problems, *Jñānābha*, **36** (2006), 125-134. (with Swapna Dwivedi)
100. A new multidimensional integral transform, *Jour. Pure. Math.*, **23**, (2006), 101-119. (with S. S. Chauhan)
101. Transformations of some multiple hypergeometric functions of several variables, *Jour. Pure Math.*, **24** (2007), 49-58. [Also presented in ISAAC congress, 2003 held at York Univ. Toronto, Canada [August 11-16, 2003] in special session on Non-Linear Analysis]
102. Applications of multiple hypergeometric function of Srivastava and Daoust and generalized polynomials of Srivastava in two boundary value problems, *Indian J. Nat. Acad. Math.* **21** (2007), 19-38 [with S. S. Chauhan]
103. On some new multiple hypergeometric functions related to Lauricella's functions, *Jñānābha*, **37** (2007), 107-122. [with Vandana Gupta]
104. A generalization of multivariable polynomials, *Jñānābha*, **38** (2008), 153-160. (with K. P. Tiwari)
105. Laplace integral representations and recurrence relations of multiple hypergeometric functions related to Laurecella's functions, *Jñānābha*, **39** (2009), 121-154 (with Vandana Gupta)
106. On some multivariable generalized truesdell polynomials, *Jour. Pure Math.*, **26** (2009), 9-13. [with S. S. Chauhan]
107. Multivariable generalized polynomials defined through their generating function, *Jñānābha*, **40** (2010) 105-112. [with Shailja Sengar]
108. On some expectations associated with probability density functions of various multivariable distributions, *Jñānābha*, **40** (2010), 129-146. [with K. P. Tiwari]
109. Fourier series involving generalized Srivastava polynomials of several variables and the multivariable  $H$ -function of Srivastava-Panda, *Jñānābha*, **40** (2010), 147-156. [With Yogesh Kumar]
110. On the distributions of the densities involving non-zero Zeros of Bessel and Legendre functions and their infinite series, *Proyecciones Journal of Mathematics*, **29** (2010), 165-182. [with H. Kumar and M. A. Pathan]
111. Applications of Bessel function, multivariable generalized Srivastava polynomials and multivariable  $H$ -function of Srivastava-Panda in a problem on cooling of a heated cylinder, *Indian Journal of Theoretical Physics*, **59(2)** (2011), 127-140. [with Vandana Gupta]
112. A remark on "Fractional Calculus operator involving the product of hypergeometric functions of several variables" by V. B. L. Chaurasia and Hari Singh Parihar, *Jñānābha*, **35** (2005), 175-187, *Jñānābha*, **41** (2011) 40. [with S. S. Chauhan]
113. Some expectations associated with probability density functions of various multivariable distributions, *Jñānābha*, **42**, (2012), 125-142. [with Vandana Gupta]
114. On some generalized fractional integrals involving generalized special functions of several variables, *Jñānābha*, **43** (2013), 128-148. [with Vandana Gupta]
115. A multivariable analogue of a class of polynomials, *Jñānābha*, **45** (2015), 95-102, [with Subhash Sharma]
116. Generating functions through operational techniques, *Jñānābha*, **45** (2015), 137-152. [with Shailja Sengar]
117. On two variables generalized Lupas operator and their, *Jñānābha*, **45** (2015), 81-94. [with Hemant Kumar]
118. Summability and numerical approximation of the series involving Lauricella's triple hypergeometric functions, *Jñānābha*, **46** (2016), 90-104. [with M. A. Pathan, Hemant Kumar and Harish Srivastava]
119. Contour integral representations of two variable generalized hypergeometric function of Srivastava and Doust with their applications in Initial Value Problems of arbitrary order, *Jñānābha*, **50(1)** (2020), 232-242. [with Hemant Kumar]
120. Estimated solutions of generalized and multidimensional Churchill's diffusion problems, *Jñānābha*, **50(2)** (2020), 146-152. [with Hemant Kumar]

## Special Articles

1. Professor Kanahiya Lal Singh (February 15, 1944- November 22, 1990) (Dedicated to the Memory of Professor K. L. Singh), *Jñānābha*, **22** (1992), I-XIII.
2. Professor J. N. Kapur: Man and Mathematician. (Dedicated to Honour Professor J. N. Kapur on His 70th Birth Anniversary Celebrations) *Jñānābha*, **24** (1994), 3-11.
3. Professor H. M. Srivastava : An Amazing Mathematician (Dedicated to Professor H. M. Srivastava on His 62nd Birthday), *Jñānābha*, **31/32** (2002), 1-23.
4. Professor J. N. Kapur (1923-2002). (Dedicated to the Memory of Professor J. N. Kapur (September 07, 1923- September 04, 2002) *Jñānābha*, **33** (2003), 5-48
5. Professor S. P. Singh: As a Man and Mathematician, (Dedicated to Honour Professor S. P. Singh on His 70th Birthday) *Jñānābha*, **37** (2007), 1-20.
6. Professor H. M. Srivastava: Man and Mathematician. (Special Issue: Dedicated to Honor Professor H. M. Srivastava on His Platinum Jubilee Celebrations) *Jñānābha*, **15** (2015), 1-12
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## Books Authored ( Graduate Level)

### Single Authored

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| 1. <i>Co-ordinate Geometry,</i> | Shiv Lal Agarwala and Co, Agra                |
| 2. <i>Numerical Analysis,</i>   | Variety Books Publisher's Distributors, Delhi |
| 3. <i>Elements of Matrices,</i> | " " "   |
| 4. <i>Trigonometry,</i>         | " " "   |

### Co-authored

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| 1. <i>Engineering Mathematics-1,</i>                      | Variety Books Publisher's Distributors, Dehi |
| 2. <i>Algebra and Trigonometry,</i>                       | Krishna Prakashan, Meerut                    |
| 3. <i>Geometry and Vector Calculus,</i>                   | " " "  |
| 4. <i>Complex Analysis,</i>                               | " " "  |
| 5. <i>Real Analysis,</i>                                  | " " "  |
| 6. <i>Advanced Calculus and Tensor,</i>                   | " " "  |
| 7. <i>Differential Equations and Integral Transforms,</i> | " " "  |
| 8. <i>Mechanics,</i>                                      | " " "  |
| 9. <i>Numerical Analysis and Statistics,</i>              | " " "  |

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