

CURRICULUM VITAE



1. **Name** **Dr. Mohammad Hanif**
2. **Date of Birth** **December 14, 1939**
3. **H.E.C. Approved Supervisor in Statistics, Bio-Statistics and Public Health (2004)**
4. **Present Address** **National College of Business Administration & Economics, Gulberg, Lahore. Pakistan.**
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5. **Permanent Address** **E-50, Street No 8, Officers Colony, Cavalry Ground, Lahore. Pakistan.**
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6. **Present Position** **Professor of Statistics and Pro Rector Vice Rector (Research), National College of Business Administration and Economics, Lahore - Pakistan.**

7. Academic Qualification

Degree		Subject	Research Title/Examination	University
Ph.D.	1996	Statistics	Design and model based Sampling Inferences	Punjab University Lahore
M. A (HONS).	1970	Statistics	Mathematics (Multistage Sampling) Cluster	New South Wales University, Australia

M.A	1962	Statistics	Examination	Punjab University Lahore
B.A	1960	Math	Examination	Punjab University Lahore
F.A	1957	Math, Geog.	Examination	Board of Secondary Education Lahore
Matric	1955	Science Group	Examination	Board of Secondary Education Lahore

8. **TEACHING EXPERIENCE (56 years)**

9. **PLACE OF WORK (TEACHING AND RESEARCH):**

- **Professor** of Statistics and Vice Rector (**Research**) with effect from 1/7/2011 at National College of Business Administration and Economics. 40-E-I Gulberg, Lahore, Pakistan.
- **Professor (Fulltime Faculty)** of Statistics at Lahore University of Management Sciences (LUMS) Lahore from 31/5/2004-30.6.2011.
- **Professor** of Statistics and **Associate Dean** in the Faculty of Mathematical Sciences, The University of Lahore, Raiwind Road, Lahore, Pakistan (26/11/1999 to 8/4/2002).
- **Assistant Professor and Associate Professor** in the Department of Family and Community Medicine, King Faisal University, Dammam. Saudi Arabia. (January, 1993 to September, 1999).
- **Lecturer, Assistant and Associate Professor**, Department of Statistics, El- Fateh University, Tripoli. Libya from 1972 to 1990.

- **Assistant Professor**, Department of Statistics Karachi University, Karachi. Pakistan from 1964-1966.
- **Lecture and Assistant Professor**, Institute of Statistics, University of the Punjab, Lahore (1962 to 1964, 1966-1972 and 1990 to Jan 1993).
- **Research Fellow**, Australian Bureau of Statistics, Canberra, Australian from 1968-1969.
- **Assistant Professor** University of New South Wales, Australia (1969-1970).

During my 30 years stay abroad I had been involved in teaching and Research in Australia, Libya and Saudi Arabia

10. **FIELDS OF INTEREST:**

Survey Sampling, Research Methods, Bio- Statistics, Statistical Inference, and Quantitative Methods, Public Health, Operations Research, Demography

11. **TEACHING ACTIVITIES:**

- a) Teaching M. Phil. and Ph.D. students in Statistics at The University of Lahore
- b) Teaching M. Phil. and Ph.D. students at National College of Business Administration and Economics.
- c) Teaching and Research at Lahore University of Management Sciences, Lahore.
- d) Teaching business Research Methods, Quantitative Methods to School Of Business Administration and Probability and Probability Distribution to School of Information and Computer Science in FAST (National University and Emerging Science) and National College of Business Administration..

- e) (Postgraduate & undergraduate Medical Students from 1993-1999 and training in SPSS package every year to FAMCO residents King Faisal University, Dammam , Saudi Arabia and supervising Ph.D. students
- f) Teaching (1962-1990)
 - (i) Sampling designs, Statistical Inference, Time series Analysis, Analysis of variance to M.Sc. Students at the Institute of Statistics Punjab University Lahore.
 - (ii) Sampling designs, Analysis of variance and Testing of Hypothesis to undergraduate students, major in statistics At El-Fateh University Libya from 1972 to 1990.
 - (iii) Agricultural Statistics, Engineering Statistics, Educational Statistics, Medical Statistics and Economics Statistics to undergraduate students at El-Fateh University Libya.

12. **INTERNATIONAL RECOGNITION:**

- (i) **Five thousands Personalities of the World.** A book was published in U.S.A during the year 1987 and my name was included in that book during 1988.
- (ii) **Fellow of the Royal Statistical Society From 1984-2012**
- (iii) **Member of International Statistical Institute Holland From 1972-2010**
- (iv) Awarded **Gold medal** by the Islamic Countries Society of Statistical Sciences In **Malaysia** during 2007 for my contributions for the development of Statistics in Islamic Countries
- (v) **ISOSS-PSA award** was confirmed for significant contribution in the field of statistics in the Islamic Countries.

13. MOST SIGNIFICANT CONTRIBUTION IN THE STATISTICAL LITERATURE

(i) Selection Procedures. Three selection procedures were suggested.

They are known as:

- (a) Brewer- Hanif optimization of variance**
- (b) Modified Poisson Sampling**
- (c) Collocated Sampling**

(These selection procedures are available in most standard text books of the world).

(ii) Formula of variance estimation. Two variance estimators are derived.

They are known as:

- (a) Hanif- Mukhopadyay (1993) variance estimator**
- (b) Hanif - Brewer (1980) variance estimator**

These formulas are available in most of the standard Text Books.

(iii) Statistical Test for Homogeneity of variance.

A test was derived to test the homogeneity of variance. It is known as Samiuddin- **Hanif**- Asad Cube Root Test. This test is parallel to Levene's and Bartlett's tests.

(iv) Brewer, Hanif and Tam Estimator know as BHT estimator (1988)

This is commonly used in practical field

(v) Brewer- Hanif Multistage Rule for the estimation of variance known as Brewer- Hanif Multistage rule (1970).

(vi) Samiuddin-Hanif Estimators in Two-Phase Sampling

14. Research Publications and Research Guidance:

(Only those papers are mentioned where significant developments were made)

15. Total papers published More than 264

16 Number of books

Eight and Two Research Monographs

17. Number of Conferences (national and International) Attended [More than 30]

Research Papers on Statistical Theory and Bio-Statistics

(2019)

1. Sanaullah, A., Saleem, I. **Hanif, M.** and Gupta, S. (2019). Mean estimation with generalized scrambling using two-phase sampling. *Communication in Statistics-simulation and computation. Accepted for 2019. [IF=0.501]*
2. Iram Saleem, Aamir Sanaullah, and **Hanif, M** (2019). Generalized family of estimators in stratified random sampling using sub-sampling of non-respondents. *Journal of Reliability and Statistical Studies*, 11(2), 159-173. *Accepted for 2019. [ISI]*
3. Saleem, I. Sanaullah, A. and **Hanif, M.** and Nursel Koyuncu. (2019). Estimation of Mean of a Sensitive Quantitative Variable in Complex Survey: Improved Estimator and Scrambled Randomized Response Model. *Gazi University Journal of Science. Accepted for 2019. [ISI]*
4. Iram Saleem, Aamir Sanaullah, and **Hanif, M.**(2019). Double sampling regression-cum-exponential estimator of the mean of a sensitive variable. *Mathematical Population Studies*. doi.org/10.1080/08898480.2019.1565273. *Accepted for 2019. [IF=0.286]*
5. Sanaullah, A and **Hanif, M** (2019). Generalized chain exponential-type estimators under stratified two-phase sampling with sub-sampling the non-respondents. *Journal of Statistical Theory and Applications*. **18(1) Accepted for 2018. [ISI]**
6. Asghar, A. Sanaullah, A. and **Hanif, M.** (2019). Generalized class of variance estimators under two-phase sampling for partial information case. *Electronic Journal of Applied Statistical Analysis. Accepted for 2019. [ISI]*

7. Azaz Ahmad, Sanaullah, A. and **Hanif, M.** (2019). Modified maximum likelihood integrated robust ratio estimator in simple random sampling. *Punjab University Journal of Mathematics*. **Accepted for 2019**. [ISI] (2018)
8. Tayyab, M., Noor ul amin, M. and **Hanif, M.** (2018). Exponential Weighted Moving Average Control Charts for Monitoring the Process Mean Using Pair Ranked Set Sampling Schemes", accepted for publication in *Iranian Journal of Science and Technology, Transactions A: Science*.
9. Noor ul Amin, M., Tayyab, M., **Hanif, M.** (2018) Mean Estimation Using Even Order Ranked Set Sampling, *Punjab University Journal of Mathematics*, 51(1), 91-99.
10. Noor ul Amin, M., Yasmeen, U, **Hanif, M.** (2018). Generalized variance estimators in adaptive cluster sampling using single auxiliary variable, *Journal of Statistics and Management Systems*, 21(3), 401-415.
11. Noor ul Amin, M., Mushtaq, N, **Hanif, M.** (2018). Estimation of mean using generalized optional scrambled responses in the presence of non-sensitive auxiliary variable, *Journal of Statistics and Management Systems*, 21(2), 287-304.
12. Usman Shahzad, Muhammad Hanif, Nursel Koyuncu, and **Aamir Sanaullah** (2018). On the estimation of population variance using auxiliary attribute in absence and presence of non-response. *Electronic Journal of Applied Statistical Analysis*, 11(2), 608-621. [https:// 10.1285/i20705948v11n2p608](https://doi.org/10.1285/i20705948v11n2p608) [ISI]
13. Sanaullah, A., Noor ul Amin, M., Hanif, M. Kounicy, N., (2018) Generalized Exponential-type estimators for population mean taking two auxiliary variables for unknown means in stratified sampling with sub-sampling the non-respondents. *International Journal of Applied and Computational Mathematics*.4 (2) 7-18.
14. Javaid., A., Noor ul amin, M. and **Hanif, M.** (2018). A New Max-HEWMA control chart using auxiliary information, to appear in *communications in Statistics-Simulation and Computation*. <https://doi.org/10.1080/03610918.2018.1494282>

15. Ayaz, A., Ahmad, Z., Snaullah, A. and Hanif, M. (2018) Generalized multivariate exponential type (GMET) estimator using multi- auxiliary information under two-phase sampling. *Pak. J. Statist.* 34(2) 119-137.
16. Riaz, N., Qureshi., M. N. and Hanif. M. (2018). Generalized estimator for population variance in systematic random sampling. *Advances and applications in Statistics. To appear*
17. Qureshi, A. N., Kadilar, C., Noor Ul Amin, M. and **Hanif M.(2018)**. Rare and clustered population estimation using the adaptive cluster sampling with some robust measures. *Journal of Statistical Computation and simulation. To appear*
18. Qureshi, M. N., Khalil, Sadia. and **Hanif, M** (2018) Generalized semi exponential type estimator under systematic sampling. *Journal of Statistical Theory and Applications.* 17 (2) . 283-290.
19. Javaid, A., Noor ul amin, M. and **Hanif, M.** (2018). A new Max – HEWMA control chart using auxiliary information. *Commun. Statist- Simulation and computation*
20. Saleem, I., Sanaullah, A. and **Hanif, M.** (2018). A Generalized Class of Shrinkage Estimators for Estimating Population Mean in the Presence of Non-Response. *Journal of Statistical Theory and Application,* 17(4), 616-626.
21. Saleem, I., Sanaullah, A., **Hanif, M.** and Koyuncu, N. (2018) Estimation of Mean of a Sensitive Quantitative Variable in Complex Survey: Improved Estimator and Scrambled Randomized Response Model. *Journal of the Iranian Statistical Society.*
22. Saleem, I., Sanaullah, A. and Hanif, M. (2018). Estimating Population Variance using Scrambled Randomized Response Technique. *Iranian Journal of Science and Technology Transactions A: Science*
23. Yasmeen, U., Noor ul Amin, U., and **Hanif, M** (2018) Exponential Estimators of Finite Population Variance Using Transformed Auxiliary variables submitted to *Proceedings of the National Academy of Sciences, India Section: Physical Sciences.*

24. Khalil, S., Noor-ul-Amin, M. and **Hanif, M. (2018)** “Estimation of Population Mean for a Sensitive Variable in the Presence of Measurement Error” *Journal of Statistics & Management Systems*. 21(1), 81-91.
25. Khalil, S., Gupta, S. and **Hanif, M. (2018)** “Estimation of finite Population Mean in Stratified Sampling using Scrambled Responses in the Presence of Measurement Errors” *Communications in Statistics – Theory and Methods*. DOI:<https://doi.org/10.1080/03610926.2018.1435817>.
26. Javaid, A., Noor ul Amin, M. and **Hanif, M. (2018)**. Modified ratio estimator in systematic random sampling under non –response. *Proc. Natl. Sci., India A Phys. Sci.*
27. Asghar, A., Snaullah, A. and **Hanif, M. (2018)** A multivariate regression-cum-exponential estimator for population variance vector in two phase sampling. *Journal of King Saud University – Science*. 30, 223-228.+
28. Qureshi, N, Khalil, Sadia and **Hanif, M (2018)**. Joint influence of exponential ratio and exponential product estimator for estimation clustered population mean in adaptive cluster sampling .*Advances and Applications in Statistics*. Vol 53(1), 13-28.
29. Noor-ul-Ameen, M., Yasmeen, U. and **Hanif, M. (2018)**. Exponential Estimators of Finite Population Variance using Transformed Auxiliary Variable. *Pro.Natl. Acd.Sci.India.Sect.A Phys SC1* DOI 10.1007/s40010-017-0410-5
30. Ahmad, A, Amir, S., **Hanif, M, (2018)**. Modified Maximum Likelihood Integrated Robust Ratio Estimator In simple Random Sampling. *Journal of Mathematics of Mathematics*, 51(3) ,---

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31. Qureshi, M. N., Noor ul Amin, M., and **Hanif, M (2017)**. Generalized Regression Type Estimator in Adaptive Cluster sampling, *submitted to communications in Mathematics and Statistics*.
32. Yasmeen, U., Noor ul Amin, M., and **Hanif, M (2017)**. Exponential Estimators of Finite population Variance Using Transformed Auxiliary Variables, *submitted to Proceedings of the National Academy of Sciences, India Section A:A Physical Sciences*.

33. Yasmeen, U., Noor ul Amin, M., and **Hanif, M** (2017). Estimation of Population Variance for Rare and Clustered Population Using Adaptive Cluster Sampling. *Submitted to Ecological Modelling*.
34. Yasmeen, U., Noor-ul-Amin, M., and **Hanif, M** (2017). Estimation of population variance for Rare and Clustered Population using Adaptive Cluster Sampling, *Submitted to Environmental and Ecological statistics (ESST)*.
35. Qureshi, N, Khalil, Sadia and **Hanif, M** (2017). Generalized Semi Exponential Type Estimator under Systematic Sampling. *Advances and Applications in Statistics*. Vol 53(1), 13-28.
36. Khalil, S., Noor-ul-Amin, M. and **Hanif, M.** (2017) “Generalized Estimator of Population Mean by using Conventional and Non-Conventional Measures in the Presence of Measurement Errors” *Communications in Statistics - Simulation and Computation*. DOI: 10.1080/03610918.2017.1387662.
37. Khalil, S., Gupta, S. and **Hanif, M.** (2017) “A Generalized Estimator for Finite Population Mean in the Presence of Measurement Errors in Stratified Random Sampling” *Journal of Statistical Theory and Practice*. 12 (2). 311-324.
38. Sanaullah, A., Asghar, A., Hanif, M., General Class of Exponential Estimator for Estimation Final Population Variance. *Journal of Reliability and statistical study*. Vol. 2(10), 1-16.
- (2016)**
39. Asghar, A, Snaullah, A. and **Hanif, M** (2016). Multivariate estimator for estimating vector of population variances using multi-auxiliary variables in two-phase sampling. *Accepted in King South University, Journal of Statistics*.
40. Yasmeen, U. Noor-ul-Ameen, M. and Hanif, M. (2016). Exponential ratio and product type estimators of finite population mean. *J. of Stat. and Management Systems*. 19: 55-71
41. Chaudhury, M.S and Hanif, M (2016). Product and Exponential Product Estimators in Adaptive Cluster Sampling under Different Population Situations. *Pakistan academy of Sciences*. Vol 53(4). Pg.#. 447-457.
42. Sanaullah, M., Noor ul Ami9n, M. and Hanif M. (2017) Generalized Exponential ratio-ratio and product –product estimators for population mean in

the presence of non-response under stratified two phase random sampling. *Pakistan Journal of Statistics. Accepted PJS*

43. Sanaullah, A., Asghar, A. and Hanif, M. (2017). *General class of exponential estimator for estimating finite population variance. Journal of reliability and statistical studies. 10(2) 1-16.*
44. Chaudhury, M. S., Tahir S and Hanif, M (2016). Ratio Estimators for Population Variance in Adaptive Cluster Sampling. *Pakistan Journal of Science. Vol 68(3).*
45. Ayaz, A., Sanaullah, A., **Hanif, M** and Ahmad, Z. (2016). Generalized multivariate Exponential Estimator in Two-Phase Sampling Using Multi-Auxiliary Information. *Submitted to Pakistan Journal of Statistics.*
46. Hammad, N and **Hanif, M.** (2016). Non-Directional Two-Dimensional Neighbor Designs. *Submitted to Pakistan Journal of Statistics.*
47. Saleem, I., Sanaullah, A., and **Hanif, M.** (2016). Estimation of Mean of a Sensitive Quantitative Variable in Complex Survey: Improved Estimator and Scrambled Randomized Response Mode. *Submitted to American Journal of Mathematical and Management Sciences.*
48. Ahmad, Z. and **Hanif, M** (2016). A note of multivariate shrinkage estimators. *Journal of ISOSS. Vol. 2 (1), 13-40.*
49. Mushtaq, N., Noor-ul-Ameen, M. and **Hanif, M.** (2016) Stratified random sampling by using randomized response technique. *Submitted to Hacettepe Journal of Mathematics and Statistics*
50. Javed, M., Ahmad, Z. and **Hanif, M.** (2016). Generalized multivariate shrinkage estimators in multi-phase stratified systematic sampling. *Submitted to Pak. J. Statist*
51. Saleem, I., Sanaullah, A., and **Hanif, M.** (2016). Estimation of Mean of a Sensitive Quantitative Variable in Complex Survey: Improved Estimator and Scrambled Randomized Response Model. *Submitted to Applied Mathematics and Computation.*

52. Tariq, S., Noor-ul-Amin, M. **Hanif, M.** and Jun, Chi- Hyuck (2016). Designing of a hybrid exponentially weighted moving average control chart using auxiliary information. *Submitted to Quality and Reliability Engineering Internationals*
53. Hamad, N. and **Hanif M.** (2016). Non binary partially neighbor balanced designs for circular blocks. *Communications in Statistics. Theory and Methods*. **DOI:**
10.1080/03610926.2014.953692
54. Ahmed, Z., Hussain, I, and **Hanif, M.** (2016) Estimation of Finite Population Variance in Successive Sampling using Multi-Auxiliary Variables. *Commun. Statist. Theory and Method*. Vol. 45(3), 553-565.
55. Mushtaq, N., Noor-ul-Amin, M, and **Hanif, M.** (2016) Estimation of Population Mean of Sensitive Variable Using Randomize Response Method in Two-Phase Sampling. *Accepted to Pakistan Journal of Statistics*.
56. Yasmeen, U., Noor-ul-Amin, M, and **Hanif, M.** (2016) Exponential ratio product type estimators of finite population mean. *Journal of Statistics & management Systems*. Vol.19, 55-71.
57. Snaullah, A., Noor ul Amin, M., Hanif, M. Kadliar, C. (2016) Generalized exponential chain ratio and chain product estimators under stratified two-phase random sampling for non- response. *Inter. National Journal of Applied Mathematics and Statistics*. 55(2), 57-69.
58. Snaullah, A., **Hanif, M.** and Asghar, A. (2016). Generalized exponential estimators for population variance under two phase sampling. *Inter. J. Applied and Computational Mathematics*. Vol 2(1).75-84.
59. Tahir, S., Chaudhury, M. S. and **Hanif, M** (2016). Generalized Exponential Estimators For Population Variance In Adaptive Cluster Sampling. *Submitted to the Journal of Applied Mathematics and Computation*.
60. Chaudhury, M. S. and **Hanif, M** (2016). Generalized Modified Ratio Estimators for Estimation of Finite Population Mean in Adaptive Cluster Sampling. *Submitted in Communications in Statistics - Simulation and Computation*.

61. Azeem, M., and **Hanif M.** (2016) Joint influence of measurement error and non-response on estimation of population mean, *Accepted for publication in Communications in Statistics- Theory and Methods.*
62. Saeeda, T., Chaudhury, M. S., and **Hanif M.** (2016) Ratio Estimators For Population Variance in Adaptive Cluster Sampling, *Accepted for Journal of the Korean Statistical Society.*
63. Ahmad, A., and **Hanif M.** (2016) An unequal probability sampling procedure close to maximum entropy. *Accepted to Pak. J. Statistics*

(2015)

64. Khawaja ,A. R., Bokhari, S.,M.,A., Tariq, R., Atif, S., **Hanif, M.** and Qadeer,F.(2015) Disease Severity, Quality of life, and Psychiatric Morbidity in Patient with Psoriasis with Reference to Socio-demographic, Lifestyle, and Clinical Variables: A Prospective, cross-Sectional Study from Lahore, Pakistan. *Prime Care Companion CNS Discord Vol.17(3), 1-16.*
65. Sanaullah, A. , Hanif, M., and Asghar, A. 2016. Generalized Exponential estimators for Population variance under Two-Phase sampling. *Int. J. Appl. Comput. Math.* Vol (2), 75-84.
66. Chaudhury, M. S. and **Hanif, M** (2015). Nexus among number of quadrates, number of clusters and the correlation in adaptive cluster sampling. *International journal of Research and Development in Social Science. Vol 1(5), 52-60.*
67. Chaudhury, M. S. and **Hanif, M** (2015). Regression-cum-Exponential Ratio Estimators in Adaptive Cluster Sampling. *Journal of Statistics.* Vol 22,257-273.
68. Chaudhury, M. S. and **Hanif, M** (2015) Generalized exponential –cum-exponential estimator in adaptive cluster sampling. *PJSOR* Vol 11(4)

69. Jabeen, R., Sanaullah, A., and **Hanif, M.** (2015). Efficient Class of Exponential Estimators For Population Mean in Two Phase-Stage Cluster Sampling. *Pak.J. Statistics Vol 31*
70. Azam, M., Rasheed T., Shahzad, A., **Hanif, M.**, Qadeer, F. and Jafferany M. (2015). Disease Severity, Quality of Life, and Psychiatric Morbidity in Patients With Psoriasis With Reference to Socio demographic, Lifestyle and Clinical Variables: A Prospective, Cross-Sectional Study From Lahore, Pakistan. 17(3):doi:10.4088/PCC.14m01629.
71. Sanaullah, A., Noor-ul-amin, M., **Hanif, M.**, and Singh, R. (2015). Generalized Exponential Chain Estimators Using Two Auxiliary Variables For Stratified Sampling With Non-Response. *Sci.Int.(Lahore)*, 27(2), 901-915.
72. Jabeen, R., Sanaullah, A. and **Hanif, M.** (2015). Generalized exponential estimators for estimating population mean in two-phase cluster sampling using two auxiliary variables. *Journal of Applied Mathematics and Computation*. DOI 10.1007/s40819-015-0047-5.
73. Koyuncu, N., Sanaullah, A., Noor-ul-Amin., and **Hanif, M.** (2015). Generalized Exponential-type Estimators for population Mean taking two Auxiliary Variables for unknown Means in Stratified sampling with sub-sampling the non-respondents, *Submitted in Journal of the Korean Statistical Society*.
74. Sanaullah, A., Noor-ul-Amin. M, **Hanif, M.** and Kadilar, C. (2015). Generalized Exponential Chain ratio and chain product estimators under stratified two-phase sampling, *Submitted to Brazilian Journal of Probability and statistics*.
75. Javaid, A., Noor-ul-Amin., M., and **Hanif, M.** (2015). Ratio Estimator of population Mean in Systematic Random Sampling, *Submitted in Pakistan Journal of Statistics*.
76. Javaid, A., Noor-ul-Amin., M., and **Hanif, M.** (2015). Ratio Estimator of Population Mean in Systematic Random Sampling using Coefficient of Correlation, *submitted to Journal of Application in Mathematics*.

77. Javaid, A., Noor-ul-Amin, M., and **Hanif, M.** (2015). General Class of Estimation Systematic Sampling under Non-Response Using Correlation Coefficient, *Submitted*.
78. Javaid, A., Noor-ul-Amin, M., and **Hanif, M.** (2015). Modified Ratio Estimator for Population Mean in Systematic Random Sampling under Non-Response, *Submitted*.
79. Ismail, M., **Hanif, M.** and Shahbaz, M.Q. (2015) Generalized estimators for population mean in the presence of non-response for two-phase sampling. *To appear in Pak J. Statist.*
80. Javaid, A., Noor-ul-Amin, M., and **Hanif, M.** (2015). Improved Ratio Estimator for population Mean in Systematic Random Sampling, *Submitted*.
81. Rashid, R. Noor-ul-Amin, M., and **Hanif, M.** (2015). Exponential Estimators for Population Mean using the Transformed Auxiliary Variables. *Applied Mathematics & Information Sciences*.9, No.4, 1-6.
82. Noor-ul-Amin, M. and **Hanif, M.** (2015) Ratio cum product exponential type estimator using the information of two auxiliary variables. *Science International*
83. Yasmeen, U., Noor-ul-Amin, M. and **Hanif, M.** (2015) Exponential ratio and product type estimator of finite population mean. *Journal of Stat and Management*.
84. Rashid, R., Noor-ul-Amin, M. and **Hanif, M.** (2015). Exponential Estimators for population Mean Using the Transformed Auxiliary Variables. *Accepted*.
85. Yasmeen, U., Noor-ul-Amin, M. and **Hanif, M.** (2015). Generalized exponential estimator of finite population mean using transformed auxiliary variable. *International Journal of Applied and Computational Mathematics*. Vol –I (4), 589-598.

86. Jabeen, R., Snaullah, A. and **Hanif, M.** (2015). Efficient class of exponential estimators for population mean in two-stage cluster sampling. *Submitted in Pak. J. Statist.*
87. Yasmeen, U., Noor-ul-Amin, M. and **Hanif, M.** (2015). Exponential ratio and product type estimators using transformed variables. *Inter. Journal Comput. Math.* 1(2), -12.
88. Ismail, M. Hanif, M., Shahbaz, M. Q. (2015). Generalized estimators for population mean in the presence of non response for two phase sampling. *Pakistan J. Statist.* 31, (3), 295-306
89. Azeem, M., and **Hanif M.** (2015) On estimation of population mean in the presence of measurement error and non-response, *Pak. J. Statist.* 31(5). 657-670.
90. Chaudhry, M.S. and Hanif, M. (2015) "Regression-cum-Exponential Ratio Estimators in Adaptive Cluster Sampling" *Journal of Statistics*, Vol. 22, pp 257-273.
91. Chaudhry, M.S. and Hanif, M. (2015) "Nexus among Number of Quadrates, Number of Clusters and the Correlation in Adaptive Cluster Sampling" *International Journal of Research and Development in Social Sciences*, Vol. 01, No. 05.
- (2014)**
92. Azeem, M., and **Hanif M.** (2014). On estimation of finite population variance in simple random sampling, *submitted.*
93. Sanaullah, A., Noor-ul-Amin, M., and Hanif, M. (2014). Generalized Exponential Ratio-Ratio and Product-Product Estimators for Population Mean in the Presence of Non-Response under Stratified Two-Phase Random Sampling. *Pakistan Journal of Statistics.* 31 (1) 71-94.
94. Sanaullah A, Ali, H.A., Noor-ul-Amin, M., and **Hanif, M.** (2014) Generalized Exponential Chain Ratio Estimators under Stratified two Phase sampling. *Applied Mathematics and Computation.* 226, 541-547.

95. Ahmad, Z., Maqsood, I., Hanif, M. and Ahmad, M. (2015). The problem of non response in sample survey: A modification of Hansen and Hurwitz (1946) approach. Submitted to *Statistical Methodology*.
96. Amin, N., Sanauallah, A. and Hanif, M. (2014). Generalized Exponential Estimators for Double Sampling. *Science International* 26(3), 2419-2426.
97. Javed, M., Ahmad, Z. and Hanif, M. (2014). Replication variance estimation under two phase sampling in the presence of non response. *STATISTICA, anno LXVI*, n. 3-4.
98. Ahmad, Z., Maqsood, I. and Hanif, M. (2014). Regression estimator in two-phase sampling using multi-auxiliary information in the presence of non-response and measurement error at second phase. *Journal of Applied Probability and Statistics*, Vol.9, No.2, 41-53.
99. Azeem, M., and **Hanif M.** (2014) A dual-to-ratio type exponential estimator of population mean in the presence of measurement error, *submitted*.
100. Sanauallah, A., Noor-ul-Amin, M and Hanif, M. and Kadilar, C. (2014). Generalized Exponential Chain Ratio and Chain Product Estimators under Stratified Two-Phase Random Sampling for Non-Response. *Accepted for publication to International Journal of Agricultural and Statistical Sciences. (Impact Factor)*.
101. Noor-ul-Ameen, M., Sanauallah, A. and Hanif, M. (2014) A new transformation to auxiliary variables for estimation of the finite population mean. *Submitted in Pakistan Journal of Statistics*.
102. Sanauallah, A., and **Hanif, M.**, (2014) A new transformation of auxiliary variables for estimation of the finite population mean. *Submitted in Pakistan Journal of Statistics*.
103. Sanauallah, A, M. Noor-ul-Amin, **M. Hanif**, (2014) “Generalized Exponential-type Estimators for Population Mean taking Two Auxiliary Variables for unknown Means in Stratified Sampling with Sub-sampling the Non-Respondents. *Submitted in Journal of Statistical Planning and Inference*.

104. Ahmad, Z., Zainab, M., Shahid, U. and **Hanif, M.** (2014), A general class of mean estimators using mixture of auxiliary variables in two-phase sampling in the presence of non-response. Submitted to *Journal of Planning and statistical Inference*.
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251. Chaudhuri, A. K. and **Hanif, M.** (1988). Detection and diagnosing latent quality losses. *Proceedings of the First Countries Conferences on Statistical Sciences*. Vol. II, 841-849.

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256. Brewer, K. R. W., **Hanif, M.** and Early, L. J. (1984). Poisson, Modified Poisson and Collocated sampling. *Journal of Statistical Planning and Inference.* Vol. 10, 15-30.

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258. **Hanif, M.** and Brewer, K. R. W. (1980) Sampling with unequal probabilities without replacement: A review. *International Statistical Review.* Vol.48, 317-335.

259. **Hanif, M.** and Brewer, K. R. W. (1980) Generalization of the Horvitz and Thompson estimator. *Punjab University Journal of Mathematics.* Vol. XII, 23-34.

260. Samiuddin, M. and **Hanif, M.** (1980). Approximation to the distribution of sample variance from the non-normal universe and application. *Presented at the 5th Australian Statistical Conference held at Sydney.*

261. Samiuddin, M. and **Hanif, M.** (1980) Bayesian analysis of matched binary response sample. *Presented at the 5th Australian Statistical Conference held at Sydney.*

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262. Samiuddin, M., **Hanif, M.** and Asad, H. (1978). Some remarks on estimators in P.P.S. (Probability proportional to size) sampling with out replacement. *Presented at the 4th Australian Statistical Conference held at Canberra.*

263. Samiuddin, M., **Hanif, M** and Asad, H. (1978). Some comparison of Bartlett and Cube root tests of homogeneity of variance. *Biometrika* Vol. 65(1).218-221.

264. **Hanif, M.** and Brewer, K. R. W. (1978) Comparison of Poisson sampling with some selection procedures for unequal probabilities. *Punjab University Journal of Mathematics.* Vol. XI, 33-40.

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265. Samiuddin, M. And **Hanif, M.** (1977). Bayesian test of hypothesis in the multinomial distribution. *Australian Journal of Statistics.* Vol. 19(3), 179-184.

266. **Hanif, M.** and Ahmad, M. (1977) On optimal level of clustering for multipurpose sample survey in Libya. *Bulletin of International Statistical Institute.* Vol. 41(4), 224-227.

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267. **Hanif, M.** (1974) An asymptotic variance formula for sampling without replacement with unequal probabilities. *Libyan Journal of Science.* Vol. 4(A). 47-51.

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270. **Hanif, M.** (1970) Ratio estimator for multistage sampling. *Bulletin of Pakistan Statistical Association*. Vol. 15, 2-7.
271. Zia-ud-din, M. and **Hanif, M.** (1970) Expression of generalized K- Statistics k_{21} in terms of power sum symmetric function S_{rs} . *Journal of the Statistical Research*. Vol. 4(2) 174-176.

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272. Brewer, K. R. W. and **Hanif, M.** (1969). Sampling without replacement with probabilities proportional to size -I. Methods using Horvitz and Thompson estimator. Unpublished Manuscript (*Submitted for publication but due to difference with the referee this manuscript is still unpublished, but this is cited frequently in the text books and research articles. This was published as scientific report by the Australian Bureau of Statistics, Canberra. Australia.*)
273. Brewer, K. R. W. and **Hanif, M.** (1969) Sampling without replacement with probabilities proportional to size- II. Methods using special estimators. Unpublished Manuscript. (*Submitted for publication but due to difference with the referee this is still unpublished but frequently cited in the literature. This was published as scientific report by the Australian Bureau of Statistics. Canberra. Australia*)
274. **Hanif, M.** (1969). Multistage Cluster Sampling. Master Thesis. *Submitted to the University of New South Wales, Australia.*

18. Guidance of Ph.D. IN Public Health, Statistics, Bio-Statistics and Businesses Administration

SUBJECT	Ph.D.	M. Phil.
Public Health and Community Medicine Saudi Arabia Dentistry(Pakistan)	26*	-
Statistics	26	30
Management and Economics Pakistan	1	3

* In Medicine there are always two supervisors for Ph.D. dissertation

(a) **Ph.D. Dissertations (Family and Community Medicine and Public Health)**

The following students have completed Ph.D. Dissertations from 1993 to 1999. (As Co-Supervisor)

1. The Prevalence rate of couple infertility and psycho- social correlation in Buradah Area. By **Dr. Saud Al-Hassan Al-Gamdi**.
2. Prevalence significance of tuberculin negativity in under five children after BCG. By **Dr. Fahad Saleh Al-Tayyeb**.
3. Adult male psychiatric morbidity among primary health care attendants in Al-Khobar. By **Dr. Ali Abdullah Al-Fakeeh**.
4. Magnitude of hypertension in pregnancy and knowledge, attitude and practice of doctors and nurses in primary health care centers in Al-Khobar city. By **Dr. Mohammad Bakr Saleh Gandeh**.
5. Radio diagnostic investigation in Dammam city. By **Dr. Mohammad Omar Basuliman**.
6. Assessment of drug compliance among hypertensive patients in Tabuk city. By **Dr. Salem Ahmed Al-Khalil**.
7. Evaluation of drugs in Jeddah. By **Dr. Omer Mohammad Bil-Baid**.
8. Enuresis among Makkah Al-Mukkarah primary school children, epidemiology and psychological impact. By **Dr. Bakr Bakr Mohammad Kalo**.
9. Assessment of utilization of geriatrics and knowledge and attitude of doctors of primary care centers, Al-Buradah. By **Dr. Amin Mukhtar**.
10. Standardization of the Denver pre-screening development questionnaire for Saudi-Children at Al-Madina Al-Munawarrah. By **Dr. Saleh Saad A. Al-Ansari**.

11. Prevalence of obesity among intermediate and high school girls in Al-Khobar city. By **Dr. Fawzia Al-Abbad.**
12. Prevalence of bronchial in Yanbu Industrial city. By Dr. **Abdullah Al-Shahri.**
13. Is the fiber glass processing adversely affecting lungs? By **Dr. Wadea Mohammad Saeed Tolah.**
14. The cost of diabetes mellitus in primary health care centers Al-Khobar Saudi Arabia. By **Dr. Shaher Al-Shahri.**
15. Utilization of laboratory investigation in primary health care centers in Al-Khobar. By **Dr. Marwan A. Bakarman.**
16. Health promotion in primary care centers in Riyadh. Saudi Arabia. By **Dr. M.Z. Al-Shahri.**
17. Primary health-care utilizers' satisfaction in Al-Khobar Saudi Arabia. By **Dr. Yahya M. Makhdoom.**
18. Psycho-social impact on mothers of Saudi diabetic children in Riyadh city. By **Dr. M.Z.A. Flimban.**
19. Assessment of diabetes related distress and psycho-social adjustment. **Dr. Ali Arabi.**
20. Hypertension cost of care and awareness of doctors in the primary health care centers in Al Khobar. Saudi Arabia. By **Dr. Mohammad Abdullah Al-Shahri.**
21. Needs assessment of continuing medical education for primary health care physicians in the Al-Madinah Al Munawarah province. By **Dr. Ahmed Hassan Al-Mosilahi.**
22. ADHD: Attention deficit hyperactivity disorder among school children in Dammam city. By **Dr. Jamal Al-Hamid.**

23. Evaluation of an educational program to improve the recognition of mental illness by primary health care physicians in Asir region, Saudi Arabia. **By Dr. Abdullah Dkhail Al Khathami.**
24. Prevalence of anxiety and depression on school children from age 15 to 19. **By Dr. Othman Ali Saeed Al- Ghamdi.**
25. Assessment of selective strategies in a health development project Cox's Bazar- Bangladesh by **Dr. Attia Taha.**
26. Profile of road accidents in eastern province of Saudi Arabia. **By Dr. Adil Madani.**

(b)The following students completed M. Phil/ Ph.D. on Statistical theory

Ph. D Dissertations

1. **Sampling with probability proportional to size sampling (Dr M.Q. Shahbaz), 2003.**
2. **Unequal Probability Sampling (Iffat Khawaja), 2005.**
3. **Sampling with Arbitrary Probability (This is a Saudi Student who completed his PhD from OKLOHOMA University, U.S.A), 2004, under my guidance.**
4. **Job Analysis Practices in Pakistan. By Muhammad Usman Zafar, 2006.**
5. **Generalized Multivariate Ratio and Regression Estimators for Multi-Phase Sampling Zahoor Ahmad, 2008.**
6. **A family of estimators using information on Multi-auxiliary attributes for Multiphase sampling. M. Inam ul haq December 2009.**
7. **Influence of periodontal treatment on systematic inflammatory mediators; hsC- reactive protein, fibrinogen and white blood cells**

- in CHD patients (co- supervisor) Syed Akhtar Abbas Bokhari Registered under University of Punjab, 2011.**
- 8. On the construction of generalized one dimensional and two dimensional neighborhood designs for binary and non-binary blocks Hammad Naqvi, 2011.**
 - 9. Non response in Survey Sampling: Some new estimators by Mohammad Ismail, 2012.**
 - 10. Generalized mixture estimators for multiphase sampling by Mohammad Moeen, 2013.**
 - 11. Maximum entropy sampling and some considerations in PS sampling by Aftab Ahmad 2013**
 - 12. Some exponential estimators in two phase sampling By Noor-ul-Amin, 2014.**
 - 13. On estimators of population mean in the presence of measurement error and non response by Muhammad Azeem, 2014.**
 - 14. Some estimators in stratified random sampling under non-response. By Aamir Sanaullah, 2014.**
 - 15. Estimation in adaptive cluster sampling using auxiliary variables by M. Shahzad , 2014.**
 - 16. Some new functional forms of calibration estimators for population total. by Naila Alam, 2014.**
 - 17. Recent development for Estimation of a Finite Population Mean using Multi-Stage Sampling by Riffat Jabeen, 2014.**
 - 18. Multivariate estimators using multi-auxiliary information in his phase sampling by a year by Ayesha Ayaz, 2015.**
 - 19. Generalized Multivariate Classical and Exponential Estimators for Population Mean and Variance under Multiphase Stratified Systematic Sampling by Muqaddas Javed, 2015.**

20. **Process monitoring control charts using auxiliary information, by Sadia Tariq**
21. **Mutivariate ratio and exponential estimations for population variance in two phase sampling using multi auxiliary variables by Amber Asghar 2017**
22. **Variance Estimation in Survey sampling by Uzma Yasmeen 2017**
23. **Mean estimation in adaptive cluster sampling using auxiliary information by Nouman Nazar Qureshi**
24. **Some contribution to scrambled randomized response technique using auxiliary variable for estimating some parameters in finite population by Iram Saleem 2017**
25. **Estimation of population mean of a sensitive variable using auxiliary information by Nadia Mushtaq ,2017.**
26. **Generalized mean Estimator for sensitive and non sensitive variables in the presence of measurement error Sadia Khalil 2017.**
27. **Development and estimation in Ranked Set Sampling Muhammd Tayyab**
28. **Nourain Raiz**
29. **Farah Arif**
30. **Mehnaz Makhdum**
31. **Rabail Alam**
32. **Mehreen Fatima**
33. **Amjad Javaid**

c) M. Phil Thesis

1. **Generalized class of Murthy Estimator by Usman Ali Khan**

2. **Some aspect of randomized response models by Mohammad Azeem**
3. **Efficiencies of Ratio Estimators of population total and their Jack-knife version in simple random sampling By Mudasser Naseer**
4. **Generalization of Sampford selection procedure by Zahoor Ahmed**
5. **Probability Proportional to size sampling without replacement By M.Q. Shahbaz**
6. **Efficiency of parallel foreign exchange market in Pakistan (1995-2001) by Ali Farhan Chaudhury**
7. **Sampling with unequal probabilities by Nadeem Shafique Butt**
8. **A comparative study of generalized ratio and regression estimators By Ahmad Nadeem Qureshi**
9. **Efficiency of ratio estimator with Poisson sampling By Farooq**
10. **Domestic Water consumption an analytical view by Lal Bux Muhammadani**
11. **Modification of Mohanty's estimators in one and two-phase sampling By Munaza Bajwa**
12. **Optimum sampling design for multipurpose survey in Pakistan. By Waseem Ahmad Khan**
13. **Effect of Leader ship in Pakistan. By Muhammad Kaleen Chaudhuri**
14. **Estimates of efficacy of ant thyroid drugs and radioactive iodine in treatment of graves' disease By Shaquat Perveen**
15. **Comparison of some ratio estimator in unequal probabilities, by Naila Bashir**
16. **Generalization of Midzuno's selection procedure by Ikramullah Kurashi**

17. **Comparison of some estimators for two-phase sampling by Asma Tahir**
18. **An empirical comparison of approximate variance formulae of Horvitz and Thompson Estimator By Yasir Hassan**
19. **A general family of estimators using information on two auxiliary attributes by Inam-ul-Haq**
20. **Some new estimators with replication variance estimation in the presence of non response under two-phase sampling by Muqaddas Javed.**
21. **Estimation of Population Mean in Systematic Sampling Under Non-Response Using Auxiliary Information by Amjad Javaid, 2014**
22. **Estimation of Population Variance using Auxiliary Information by Attiya Rafique**
23. **Estimators in Sampling for Linear & Non-Linear Relationship by Uzma Yasmeen, 2014.**
24. **Some Regression Cum-Ratio Estimators of Population Mean for Two Phase Sampling in the Presence on Non-Response by Muhammad Zubair,2012.**
25. **Quality of Life and Psychiatric Morbidity in Patients of Psoriasis by Dr.Abdul Rehman Khawaja, 2012.**
26. **Regression Cum Ratio Product Estimators Using Two Auxiliary Variables by Syed Hamad Sarwar Naqvi, 2009.**
27. **Comparison of Percentage Variation of Blood Pressure Between Normotensive And Hypertensive Inpatients of Urology by Muhammad Safdar Khan, 2016.**
28. **The Influence of Positive Attitude of Society on the Behavior and Health Related Quality of Life of Disabled Persons by Wajeeha Siddique, 2016.**
29. **Mean Estimation of Sensitive Variable under Systematic Sampling by Anam Riaz.**

19. Research Projects on Data Analysis:

- 1.** Indices of different factor of Islamic Countries. *A project of the Islamic Development Bank Jeddah. Saudi Arabia, 1993. (Team work.)*
- 2.** Forecasting of patients of Tripoli Hospitals. *A project of Arab Development Institute, Tripoli. Libya. 1988. (Team work).*
- 3.** Smoking habits of University students. *A project of the El-Fateh University Tripoli, Libya-1981. (Team work.)*
- 4.** University students' opinion on University Education System. *A project of the El- Fateh University Tripoli. Libya-1974. (Team Work.)*
- 5.** University Teachers' opinion on the University Education System. *A project of the El-Fateh University-1974. (Team Work.)*
- 6.** Consumption of Electricity in Karachi City. *A project of the Karachi Electric Supply Coporation-1965. Team work at Karachi University.*
- 7.** Town planning survey of Lahore. *A project of the Social Sciences Research Center, University of the Punjab, Lahore. (Team work.)*
- 8.** Town planning survey of Faisalabad. *A project of the Social Sciences Research Center, University of the Punjab Lahore. (Team Work.)*
- 9.** Use of antimicrobial agents in poultry production in Eastern Province of Saudi Arab and its impact on public health.-1998. *A project of the King Abdul Aziz City of Science and Technology, Jeddah. Saudi Arabia, working as statistician.*
- 10.** Health promotion and life style: Knowledge, beliefs and self reported behaviors among school students and teachers in Al-Khobar area, Saudi Arabia.

11. Prevalence of Anxiety and depression on school children in Al-Khobar .
This was an approved project by KACST.

20. **Books and Research Monograph:**

1. Brewer, K.R.W. and Hanif, M. (1983) *Sampling with unequal probabilities*. Springer Verlag,1983
2. Shahbaz, M. Q. and Ahmad, Z. Hanif, M., *TWO PHASE SAMPLING*. Cambridge Scholars Publishing, U.K.
3. Ahmad, M., Hanif, M. and Muttlak. A. (Editors) (2010) *Ranked Set Sampling*. Cambridge Scholars Publishing, U.K.
4. Butt, N. Shahbaz, M. Q. and Hanif, M. (2010). *Generalized Murthy Estimator*. LAMBERT PUBLICATION (Germany/USA)
5. Hanif, M. and Ahmad, M. (2010). *Design and Model Based Sampling Inference*. LAMBERT PUBLICATION (Germany/USA)
6. Shahbaz, M. Q. and Hanif, M. (2010). *Some Aspect of unequal probabilities sampling*. LAMBERT PUBLICATION (Germany/USA)
7. Ahmad, Z and Hanif, M.. (2010). *Generalized multivariate ratio and regression estimators for multi-phase sampling*. LAMBERT PUBLICATION (Germany/USA)
8. Haq, I and Hanif, M.. (2010) *Two -phase sampling Using Multi-auxiliary attributes*. LAMBERT PUBLICATION (GERMANY/USA)
9. Hanif, M., Khawaja, I. and Shahbaz, M. Q. (2010). *Recent development in Unequal Probabilities Sampling*. LAMBERT PUBLICATION

10. Hanif, M. Ahmad, M. A (2005) *Manual on Bio Statistics*.
Publication of ISOSS Publication
11. Hanif, M. and Ahmad, M. On Sampling Techniques. *Submitted for
Publication With NOVA Publication*
12. Hanif, M. (1967) *Introductory Statistics for school children*.
Published by Imperial Book Depot Lahore
13. Hanif, M. (1968) *Statistics, for undergraduate students*. *Published by
Scientific Board at Lahore*.
14. Hanif, M. and Qazi, F. H. (1968) *Applied Statistics for under
graduate students*. *Published by Scientific Board at Lahore*,
15. Hanif, M., Ahmed, Z. and Shahbaz, M. Q. (2010). *A text book on
Multi-phase Sampling*. Almost completed

21. Contribution to Scientific Conferences and Symposia:

1. Fifth Islamic Countries Conference on Statistical Sciences held at
Indonesia, 1996. Attended as Organizer and contributed paper.
2. Seventh Islamic Countries Conference on Statistical Sciences held at
Lahore and contributed paper.
3. Eight Islamic Countries Conference on Statistical Sciences held at
Lahore and contributed paper.
4. Tenth Islamic Countries Conference on Statistical Sciences held at
Cairo and contributed paper.
5. Ninth Islamic Countries Conference on Statistical Science held at
Malaysia and contributed paper.
6. Sixth Islamic Countries Conference on Statistical Science held at
Lahore and contributed paper.
7. International Conference on Pure and Applied Mathematics held at
Bahrain in 1995 and presented paper.

8. Second International Iranian statistics conference held at Mashed in 1994 and attended as invited speaker.
9. Fourth Islamic Countries Conference on Statistical Sciences held at Lahore in 1994 Pakistan and presented paper and attended as organizer.
10. International Conference on Probability and Statistics held at Islamabad in 1992 under UNESCO and presented a paper.
11. Third Islamic Counties Conference on Statistical Sciences held at Rabat during 1992 and presented paper and attended as organizer.
12. First International Iranian Statistics held at Isphahan in 1992 and attended as invited speaker.
13. Second Islamic Countries Conference on Statistical Sciences held in Malaysia during 1990 as Organizer and presented paper.
14. Conference on Basic Science held at Tripoli in 1989 as an observer.
15. First Islamic Countries Conference on Statistical Sciences held at Lahore in 1988 as an organizer and presented papers.
16. 5th Australian Statistical conference held at Sydney in 1980 and presented a paper.
17. 4th Australian Statistical Conference held at Canberra and presented a paper.
18. 41st congress of International Statistical Institute held at Delhi in 1977 and presented a paper.
19. 16th Statistical Conference of Pakistan Statistical Association held at Peshawar in 1971 and presented paper.
20. 15th Statistical Conference of Pakistan Statistical Association held at Karachi and presented a paper.

22. Membership of Scientific and Professional Societies and Organizations:

1. **Senior Vice President**, Islamic Society of Statistical Sciences (ISOSS) from 1994 till today
2. **Assistant Secretary General**, of the Islamic Society of Statistical Sciences, 1988-1994.
3. **Fellow** of the Royal Statistical Society, U.K since 1995.
4. **Member** of the International Statistical Institute, the Netherlands since 1982.
5. **Member** of the International Association of Survey Statisticians, France, since 1978.
6. **Member** of the Pakistan Statistical Association since 1994.
7. **Member** of International Committee of Teaching of Statistics, Sweden 1984-1990.
8. **Member** of editorial Board of Pakistan Journal from 1985 to 1989.
9. **Associate Editor** Pakistan Journal of Statistic from 1990 to 1996
10. **Co-Editor** of Pakistan Journal of Statistics since 1997.
11. **Associated Editor** Journal of Applied Statistics U. S. A since 1997.

23. Visiting Fellow:

1. Survey Research Center of the Australian National University, Australia from July to August, 1978.
2. Australian School Commission, Canberra, Australia during August 1980.
3. Bureau of Agriculture and Resource Economic, Canberra, Australia during July and August, 1985.
4. Visiting Professor, University of Malaya, Malaysia during 2010.
5. Visiting Professor, University of Malaya, Malaysia during 2012.
6. Visiting Professor, University of Malaya, Malaysia during 2013.

24. Reviewer:

Mathematical Review U.S.A (Sampling design, testing of hypothesis and bio statistics) since 1985.

25. Examiners:

Ph.D. and M. Phil. Theses for various countries

26. Referee of International Scientific Journals:

1. Australian Journal of Statistics, Australia.
2. Pakistan Journal of Statistics.
3. Punjab University Journal of Mathematics.
4. Ali Garh Journal of Statistics, India.
5. Applied Journal of Statistics and Application. U.S.A.

27. Consultancy and Related Work:

- (1) **Non- FAMCO Faculty Members** for their research (this includes estimation of sample size, methodology, data collection and interpretation of the results). According to my knowledge more than 25 papers have been published.
- (2) **Non FAMCO Residents for** their dissertations (this includes estimation of sample size data analysis and interpretation of results) papers have been published.
- (3) **FAMCO Faculty Members** for their research (this includes guidelines for data analysis and interpretation of results)
- (4) Worked as consultant on a project “**Use of antimicrobial agents in poultry production in Eastern Province of Saudi Arabia and its impact on public health.** This was a KACST project and Dr. M. S. Al-Ghamdi was principal investigator

- (5) Conducted 16 hours course on the” **Application of statistical methods in the medical field**” during 1996 and was attended by 35 post graduates residents and staff members.
- (6) **Two- day workshop** on bio statistics jointly with my other colleague and about 15 staff members and residents attended this workshop.
- (7) Member of the committee to **develop a syllabus for medical students** (undergraduate and post graduate) in the Islamic countries during 1995. This committee was formed by the Islamic, Educational, Social and Cultural Organization- ISESCO- Rabat

28. Administrative Job, Committee Membership:

1. **Secretary**, Department Faculty during 1994-1995.
2. **Secretary**, research committee of the Department since 1996-1998.
3. **Member**, examination committee since 1996-1999.
4. **Registrar**, post graduate program since 1977-1999.

29. WORK IN PROCESS

A graduate text book on sampling