

Bibliography

References

Aggarwal, J.C, "Thoughts on Education", Arya Book Depot, New Delhi.

Aggarwal, J. C. "Educational Research - An Introduction", Arya Book Depot Karol Bagh, New Delhi.

Ahuda, .R.L., "The aims and basis of Education", Arya Book Depot, New Delhi

Anne Anastasi, (1959), "Psychological Testing," Mac Millan Company, New York.

Antone Frostburg, "Chemistry of Everyday life," from internet http://chemistry.about.com/u/ua/everyday_chemistry/why-is-chemistry-htm dated 15.1.13.

Apparao,A (2003) Environment Knowledge for schools Srikalanjali printer, Narayanaguda, Hyderabad.

Aspy, D. N Roebuck, F.N. (1982), "Affective Education- Sound Investment,"- Education Leadership. 39.

Baez, Albert V. (1976), "Innovations in Science Education – World-wide, Paris, TheUnesco Press.

Basu, K. P, (October- December 1961), "Science in Secondary Education", VigyanShikshak Journal of All Indian Science Teachers Association, New Delhi, vol – 5.

Bedenbauh, John, et. al. (April-1990) "Laboratory Safety, Science Teachers Science tests" Resources in education, vol – 25 (4) PED 313233.

BequerMahd& Gupta, B. P- "Psychology of the Child and the Curriculum," NCERT

Best, J. W. (1963), "Research in Education", Prentice Hall of India Private Limited, New Delhi—110 006.

Bhandula, N, (1999), "Teaching of Science" Thoroughly revised & enlarged new edition, Prakash brothers, Ludhiana, page-165.

BhaskaraRao, "Methods of Teaching Biological Science, Nagarjuna Publishers, Guntur.

Bhatia, H.R, "Understand Your Children" New Hindustan Publication.

Biswal, B. N., (2002), Current Science, vol.83. No. 10, page 1.

Bloom B.S., "Human Characteristics and School Learning" Distinguished Science Professor of Education- The University of Chicago, Mc. Graw Hill Book Company.

Borg, Water, R. (1963), "Educational Research—an Introduction", David Mc Kay Co., Inc., New York.

Brandwein Paul, F. et. al. (1958), Teaching High School Science, A Book of Methods, New York: Harcourt Brace Jovanovich, Columbus, Ohio: Carless E. Merrill Books, Inc.

Brown, C.I., "Introduction to Chemistry", Longman's publications.

Brucce Joyce& Marsha Well- "Models of Teaching", Prentice Hall, International Editions.

Bryan Dock Rell- "The Assessment of Children's Affective Characteristics- British Educational Research, Journal, vol. 13. No. 1987.

Bunce,Diana and CinziaMuzzi (2004) ,"Survival handbook for the new chemistry instructor" , first edition Pearson / Prentice Hall.

Butin, Dan (April 2001), "Science Facilities," Resources in education, vol, - 36 (4), P.ED. 446425.

Carin, A. and Sund, R.B.(1966), "Discovery Teaching in Science". Columbus, Ohio : Charles E. Merrill Books, Inc.,

Carter,V. G., (1945) Dictionary of Education, Mc. Graw – Hill Company, New York

C.V., Barr, A. S.,andScates, D. E. , (1941), "Methodology of Educational Research", (New York: Appleton Century Crofts, INC.

Casey, J, M (February 1996), "Laboratory Equipment, Laboratory Safety, Science Education, Science Equipment," Resources in Education.Vol – 31 (2)P. Ed 387323.

Centre for Environmental Education, "ParyavaranaVidya VI class activities," Publication has been developed with support from Sir Ratan Tata Trust & Department of Education, Government of Andhra Pradesh.

Centre for Environmental Education, "ParyavaranaVidya VII class activities," Publication has been developed with support from Sir Ratan Tata Trust & Department of Education, Government of Andhra Pradesh.

Centre for Environmental Education, "ParyavaranaVidya VIII class activities," Publication has been developed with support from Sir Ratan Tata Trust & Department of Education, Government of Andhra Pradesh.

Centre for Environmental Education, "ParyavaranaVidya IX class activities," Publication has been developed with support from Sir Ratan Tata Trust & Department of Education, Government of Andhra Pradesh.

Centre for Environmental Education, "ParyavaranaVidya X class activities," Publication has been developed with support from Sir Ratan Tata Trust & Department of Education, Government of Andhra Pradesh.

Chronback . J, Lee (1949) "Essentials of Psychological tests", Harper Brothers, New York.

Corriher (2009),[http://www.sciencedaily.com/videos/2009/0112-Chemistry of cooking](http://www.sciencedaily.com/videos/2009/0112-Chemistry%20of%20cooking) dated19.1.13.

Council of State Science Supervisors, VA (June 2001), "Science & Safety: Making the Connection,"Resources in Education, vol – 36 (2), P.Ed. 449028.

Curtis, F. D.,A Digest of Investigation in the Teaching of Science, New York : Teachers College Press.

Dauson, A. J. "Hygiene for Schools", Mc Kay Co., Inc., New York.

David, R. Krathwohl& Bloom, B.S., (1964), "Condensed version of the Affective Domain of the Taxonomy of Educational Objectives," The classification of the Educational goals, Hand Book – II, New York, Mckay.

Down to Earth, (February 28, 2006), vol. 10, No. 22, Science and Environment Fortnightly.

Down to Earth, August 15, 2006, vol. 10, No. 22, Science and Environment Fortnightly, Education vol. 4,5,9.

Drury B. J., (1953), "Present practices in Health Instruction in California Secondary School", Research Quarterly (No.4), December.

"Education in emerging India", (2010), by Telugu Academy, Hyderabad.

Environment & People, (November – 2001), vol -8 No. 6.

Environmental Chemistry, (3rd June to 7th June 2002) Short Term Staff Development Programme for Andhra Pradesh, Centre for Environmental Engineering, Education and Management Technical Teachers Training Institute, Taramani, Chennai.

E. Eisner, (1999), "The Hidden Curriculum", Transparencies and Lecture details in a conference in Hong Kong on PCEd.ESC from internet 21.4.2004.

Forbes, "Study highlights hidden dangers in Everyday products- Even the green ones" retrieved from internet Feb 2, 2013.

Francis R.I,J (1958), "An Introduction to research Procedures in Education", Harper Brothers, New York, Page No.122.

Frosty and Maslow, "Learning Problems in the Classroom. "

Galen S., J. William A. A, Arthur, L., (1902), "Curriculum Planning door Better Teaching and Learning 4th edition Holt – Saunders International Editions, Japan.

Garrett, H. .E, (1967). "Statistics in Psychology and Education", International Book Bureau, Hyderabad, page-253.

George .J. M., The Science of Educational Research, Eurersis Publishing House P Ltd., Ramnagar, Delhi.

Guilford. J. P. "Fundamental Statistics in Psychology and Education", Mc- Graw Hill Book Co., New York.

Govt. of India. (1953), Report of the Secondary Education Commission, New Delhi : Ministry of Education and Youth Services.

Govt. of India. (1962), Report of Science Laboratories and Equipment in High/Higher Secondary Schools, Committee on Plan Projects. New Delhi : Planning Commission.

Govt. of India. (1964), Report of Science Education in Schools, Report of the Indian Parliamentary and Scientific Committee, New Delhi : Ministry of Information and Broadcasting.

Govt. of India. (1964), Report of Science Education in Schools, New Delhi .

Govt. of India. (1977), Report of the Review Committee on the Curriculum for the Ten – Year School, Delhi : Ministry of Education and Social Welfare.

Goyal, K. C. and Swami, Research Ideas for Science Project.Ajmir : Regional College of Education.

Gupta, S. K, Teaching Sciences in Secondary Schols.

Haps, J. C, "Some Cognitive and Affective Outcomes in Exemplary Science Teaching.

HarithaViharam, CEE, AndhraPradesh, EPTRI campus, survey no 91/4, Gachibowli, Hyderabad -5000032.

HarithaVinodam, CEE, Center for Environment Education Andhra Pradesh State Cell Hyderabad.

Haslam, Filocha, Gunstone, Richard (April – 2001), the influence of teachers on student observation in Science classes, "Resources in Education, vol – 36 (4), P.Ed. 446927.

Hassard ,Jack (2004) ,"The art of teaching science : Inquiry and Innovation in middle and high school" Oxford University press .

Harrison, H Clarke, (1950), "The Application of measurement to Health and Physical Education, Prentice Hall, Inc., New York.

Health action, (March 2002), vol. 15 No. 3

Health action, (August 2002) vol. 15 No 8

Health action, (October 2002), vol. 15 No. 10

Health Education Research Vol .24, No. 4, Hug 2009. October 15, 2009.

Hedge, B. M, The Hindu,(Tuesday, The December 4, 2001), Is science Curriculum at Crossroads?. New directions for better learning.

Hedges, W.D. (1966), Testing and Evaluation for the Sciences in the Secondary School. Belmont, California :wadsworth Publishing Co.

Heiss, O and Haffman, (1961), Modern Science Teaching : New York : Macmillan Co.,

Henry, Nelson B. (ed), (1960), Rethinking Science Education, Fifty-ninth Yearbook of National Society for the Study of Education, Chicago : University of Chicago. Press.

Henry. C. L. John. Willey and Sons.Inc, "Educational Psychology in the Class Room.

Holt, D. W., Lucywardsworth, A.. (OCT 2001), Science accommodation in Secondary Schools, "Resources in Education, vol – 36 (10), P.Ed. 452679.

Holm Yard E.J. "Organic Chemistry", a text of B.Sc.

Hymavathi, (1992), "Evolving a teaching Model for developing the affective aspects of children as envisaged in National Policy on Education. 1986."

Irulas Natural Products Corporation ITWWS, Thandari, Thirukalukundram Road, Post Box No. 23, Chengalpet -603001, Tamilnadu., India.

Janaki, K. (1987), An investigation into the motivational techniques and their impact on teaching – learning process in secondary schools of the East Godavari District.. Submitted under part- II of the M.Ed. Degree Examination, AndhraUniversity, Waltair.

James ` M. W., Psychology in the class Room.

Jha, M. N, (August 1964), "Health Education in Secondary Schools", Educational India—Vollume 31 (No. 2), August, 1964.

John, W. B. "Methods of Social Research," McGraw Hill Book Company. New York.

Journal of Educational Psychology, 59, 1968.

James, M., R., Richard, A, A., John Wiley and Sons, "Psychology of learning Educational Applications – A self teaching guide, "Inc Publishers.

John, W. B. "Research in Education," McGraw Hill Book Company, New York.

John, W. B., (1963), "Research in Education," Prentice Hall of India, (P), Limited, New Delhi, Page No. 14

Journal of Educational Research & Extension, (April – June 2003) vol. 40 – 2.

Kethrn Castle, (1989), "Child Centered Teaching Through Children's Eyes – Childhood Education – Summer.

Karla, R.M. (19976), Innovations in Science Teaching. New Delhi., :Oxford and IB Publishing Co.

Keegle, F., (March 1953), "A Novel Method for improving school Health", Journal of American Association for health, Physical Education and Recreation (No. 3), March 1953.

Kothari. C. R. (1988), Research Methods, V.S. Publications, New Delhi.

Kilgore A. M, "Models of Teaching and Teacher Education.

Krathwohl, D.R. et. Al. (1964), Taxonomy of Educational Objectives: Affective Domain. New York: David Mckay.

Krug, E.A. "The Secondary School Curriculum". New York: Harper and Brothers.

Kuhn, David. J. (1972), "Science Education in Changing Society", Science Education, 56(3).

Laroca, B. D. (June – 1962), Text Book in Science, "The Education Quarterly The Journal of Ministry of Education, Government of India vol 10 (i5) No. 54.

Lucas, A.M, and . Chrisman D.G, (1973), "A Review of British Science Curriculum Projects. Columbus", TheOhioStateUniversity.

MahendarYadav, "The Dictionary of Science".

MaitreyaBalasara (1999), "Principles of Curriculum Reconstruction," Kanishka Publishers, Distributors, New Delhi.

Manachevuluchillulupadechappudu..... Manamemchedam, CEE Environment education department, AP PCB, 2nd floor mytrivanam, huda complex, Sanjeevareddynagar, Hyderabad.

Martin B., (August - 1989), "A Checklist for designing instruction in the Affective Domain," Journal of Educational Technology,.Vol . 24.

Massey, N., (1965), Patterns for the Teaching of Science. Toronto: The Macmillan Co.

Maya.W.Powl et.al, (2012),on "Healthy eating-easy tips", from internet on 9th January 2013.

Mills, L. C. and Dean, P. M. (1960), Problem Solving Methods in Science Teaching, New York: Bureau of Publications. Teachers College, Columbia University.

Mishra, R.R.(1991). An Introduction to Chemistry, Arya Publishing House, New Delhi, page-4

Morris, and Zemel. (1999), Glycemic index, cardiovascular disease, and obesity.

Nutrition Reviews 57(9): 273-7, Sep 1999.

Muralikrishna.(2004),Glimpses of Environment, Published by Environmental Protection Society, Kakinada.

Nair, C. P. S. (1971), Teaching Science in Our Schools, New Delhi: S. Chand and Co., (Pvt.), Ltd.

Nair. P.N.G.(1978), "Impact of Creative Methods of Teaching on the attainment of higher objectives in Science, "Bucchi Services, second Survey Research in education. Page 678.

NarendraVaidya (1996), "Science Teaching for the 21st Century," Deep & Deep Publications, New Delhi, Page 318-320.

Natarajan. M. R (1983), "Evaluation of District level Science Fair and Educational Exhibitions, SCERT, Andhra Pradesh," Bucchi, Services, 4th Survey of Research in Education. P840.

National Council of Educational Research and Training (1968), The Second All India Educational Survey.

NCERT. (1974), National Science Talent Search Scheme. New Delhi.

NCERT. (1963), Improved Science Teaching.

NCERT. (1970), Curriculum and Teaching in Secondary Schools.

NCERT.(1964), "Science and Mathematics Education in India". Report of UNESCO Planning Mission of Experts.

NCERT. (1965-66), "Organizing Science Clubs", New Delhi : Department of Science Education.

NCERT.(1978), "Curriculum in Transaction – Report of Inter-country National Training Workshop in Curriculum Development".New Delhi ; NCERT.

NCERT.(1973), "Preparation and Evaluation of Textbooks on General Science", New Delhi. : NCERT.

NCERT. (1977), "First Report of Educational Research and Innovations Committee", (1974-77), Delhi : NCERT.

NCERT. (1977), "Innovations in Education in India – Part I – An Inventory". New Delhi. NCERT.

National Policy on Education, (1986), Programme of Action – Government of India – Ministry of Human Resource Development Department of Education, New Delhi, November, 1986.

National Society for the Study of Education (1932), "Basic Principles Regarding Science Rooms," 31st Year book. Part I, Bloomington Public School Publishing Company.

New Bury, N.F (1953), The Teaching of Chemistry in tropical Secondary schools, London: Oxford University Press.

Norman, E. G., Stating Behavioral Objectives for classroom Instruction.

North Seattle Community College, W. A (OCT – 2001), "Laboratory Procedures," Resources in Education, vol – 36 (2), P.Ed. 452940.

Osborne, E. S. et. Al. (1962), Research in the Teaching of Science. Washington, D.C. :U.S. Government Printing Office.

Our Environment – Our Future, Published by National Museum of Natural History (Ministry of Environment and Forests), Barakamba Road, New Delhi – 110001.

Patel, A.S. and Lulla, B. P. (1965), "Curriculum Improvement in Secondary Education", Baroda M.S. University.

Pol, P. G, (2001), "School Science," vol XXXIX, No .2. 32 – 36. Quarterly Journal of Science Education. NCERT.Sri.AurobindoMarg, New Delhi.

Preserving the environment for a better tomorrow, Chennai Petroleum Corporation Limited, Regd. Office: 536, Anna Salai, Teynampet, Chennai 600018.

Quest in Education, "Volume XV, No. 4 October, 1978.

Rao, C.S. (1969), Science Teacher's Handbook, Hyderabad : American Peace Corps,

Rajwal, B. C. (1976), "Changing Teacher Behavior in the Teaching of Science and Studying its effect on pupils," Second Survey Research in Education. M.B. Bucchi (1972 – 78), p-584.

Rajput, J. S, (2001), A Training Module for Southern Region on Environmental Orientation to School Education.

Rajput, J. S, Gupta, V. P & Vaidya, N, (1978), "Survey of Science Laboratories in the Western Region," Bucchi, Services, 2nd Survey of Research in Education. P. 559.

Rajrani, (1986), "A Factorial and Validational Study of the Abilities involved in Learning Chemistry at the Secondary Stage" Bucchi, Services, 3rd Survey of Research in Education. P. 842.

Review on "The most important foods for healthy vegetarian diets from Academy of Nutrition and dietics from internet in January 2013.

RobDunn (2012), "The hidden Truths about calories Guest Blog, Scientific American Blog retrived from internet mht, on 15.1.13.

Rowe, Mary Budd. (1973), Teaching Science as Continuous Inquiry. New York: Mc. Graw-Hill Book Company.

Scott , M . Auerbach (2001)," Changing chemistry's hidden curriculum , " Chemical and Engineering News (abstract).

Sahay, K. B. (1966), Chief Minister, Bihar "The Role of Teaching of Science in India," I VigyanShikshak Journal of All India Science Teachers association, New Delhi, vol – 10 (1), p13.

Saunders, H. N, (1955), "Teaching of General Science in tropical Secondary Schools, London: Oxford University Press.

Saunders, G., L. Cavillo, Anne Abraham Michael. ,R (Feb – 2001), Relationships among epistemological beliefs, genders, approaches to learning and implementation of instruction in Chemistry laboratory," Resources in Education, vol – 36 (2), P.Ed. 44835.

Saunders – Gerald Dawson, Carolyn Tripp, Brand Pentecost, TonchalOupka. Meg. Saunders, John (Jan–2001), Laboratory equipments, Laboratory Procedures, Laboratory safety, Science Education, Science Experiments, Secondary School Science, Science Teachers, Secondary Education," Science Resources in Education, vol – 36 (1), P.Ed. 443671.

Saveland.R. (1976), Handbook of Environmental Education, John Wiley & Sons.

SCERT (1980), Evaluation Study of State level Science fair and educational Exhibition,

Schevals, J. J. and Brandwein, P. F. (1962), The Teaching of Science. Cambridge :HarvardUniversity Press.

School Science (Sept – 2003), vol. XLI No.Quarterly Journal of Science Education NCERT.Sri.Aurobindo Ma Health action,(March 2002), vol. 15 No. 03 org, New Dellhi.

Sharma, R.C. (1968), Planning for Effective Science Teaching. Bhopal: Regional College of Education.

Sharma, R.C. (1968), "Impact of Teacher Training on Teaching Efficiency." Teacher Education, 11, 2, Jan. 1968.

Sharma, R.C. (1975), Population Trends, Resources and Environment – Handbook on Population Education, Delhi: DhanpatRai& Sons.

Siddiqui and Siddiqui (1998), "Teaching of Science today & tomorrow," Fifth Edition,doaba house, book seller & Publishers, Delhi. P 4-5.

Silvia Martinez on "What is cholesterol", from the internet on 17-8-13.

Silvia Martinez on "How soap cleans", from internet on Jan31, 2013.

Snyder, Carl. H (2003), "The Extra ordinary Chemistry of Ordinary things; fourth edition; John Wiley & Sons, Inc.

Srivastava, H. S. &Shourie,J. P. " Instructional Objectives of School Subjects – N. C. E. R. T.

Subrahmanyam, N, (2001), Rushiprachuranalu Main road, Hanuman pet, Vijayawada.

Swaminathan, M. (1974), Advanced Text Book on Food and Nutrition (Volume II) Bappco, The Bangalore Printing and Publishing Co., Ltd., No. 88, Mysore Road, Banalore 560018.

Symposium Series American Chemical Society Kansas City, Missouri, Washington D. C 1983.

Taber, Keith (2002) , "Chemical Misconceptions - Prevention , Diagnosis and cure Vol- I . Theoretical background Vol – II : Classroom resources' Sringer .

Talukdar, A. H. U (March 1993) Problems of Teaching and Learning and learning of integrated Science in Borono State of Nigeria," The Educational Review, vol – XCIX (3) P.53.

Taylor, C. W. and Barron. F. (1964), Scientific Creativity: Its Recognition and of Development. New York : John Wiley and Sons, Inc.

The Educational Review, (May – 2004), vol. 47 No. 5 ,387, 9th cross, Mahalakshmi Layout, Bangalore, 560086.

The Educational Review, (February – 2004), vol. No. 2, 9th cross, Mahalakshmi Layout, Bangalore, 560086. 9th cross, Mahalakshmi Layout, Bangalore, 560086.

The Educational Review, vol. LXXVI, No. 7 9th cross, Mahalakshmi Layout, Bangalore, 560086.

The National Commission, (Jan – 2001), "A report for the nation from the national Commission Mathematics and Science teaching for the 1st century," Resources in Education, vol – 36 (2), P.Ed. 449043.

The teacher speaks. vol - 6.

THE wealth of India .vol. III No.2 May. 2010.BrahmKumarisIshwariyaViswaVidyalyaPandavBhavan, Mount Abu,Rajasthan.

Thomas, R. M.: Sands, L. B, and Brubaker, D. L (1968), Strategies for Curriculum Change: Cases from 13 Nations. StantonPress : International Text- book Co.

Thomas, F., J and Allan K. K.. (1978), Towards Scientific Literacy. Tehran: International Institute for Adult Literacy Methods.

Thorndike and Hazen, (1970), "Measurement and evaluation in psychology", & Education, Willy private., Page No. 162.

Thurber, W. and Collette, A. (1964), "Teaching Science in Today's Secondary Schools". Boston :Alwin and Bacon.

Tisher, R. P. and Others, (1972), "Fundamental Issues in Science Education". New York John Wiley & Sons, Australia Pty. Ltd.

Tobias, Sheila and Jacqueline Raphael, (1997), " The Hidden curriculum : Faculty – Made tests in Science Springer.

Torrance, Paul, E. (1962), "Guiding Creative Talent". Englewood Cliffs, N. J. : Prentice – Hall, Inc.

Triezenberg, H.J. (ed.), (1972), Individualized Science- Like it is. Washington, D.C. : National Science Teachers Association.

Trowbridge, Leslie W, Rodger W. By bee and Janet Carlson Powell , (2008)," Teaching secondary School science – Strategies for developing Scientific Literacy, Pearson / Prentice Hall.

UNESCO.(1975), "Science in Basic Functional Education. Links with Real - Life Situations".Bangkok : ROEAO.

UNESCO.(1976), Integrated Science in Junior Secondary Schools in Sri Lanka. Bangkok :ROEAO.

UNESCO .(1977), School Science Education in India. Bangkok : ROEAO.

UNESCO, (1977), The Institute for Promotion of Teaching Science and Technology in Thailand. Bangkok : ROEAO.

UNESCO.(1978), "Strategies and Procedures in Developing and Implementing Curriculum. Report of a Sub- Region Training Workshop on Curriculum Development", Seoul.Bangkok : ROEAO.

UNESCO (1979), Soil Salinity and Your Crops – A Self Learning Module for Teachers. Bangkok : ROEAO.

UNESCO (1979), Good Bye Waste— A Self Learning and Instructional Modules in Science. Bangkok : ROEAO.

UNESCO.(1979), Integrated Science Teaching in the Asian Region, Report of a Regional Workshop. Bangkok : ROEAO.

Vashist AjayVerma, R. V. , (2003), "Curriculum Research," For common Wealth Publishers , New Delhi

Venugopal , N , (2001), "Science Dhruvataralu", Sri Madhulatha Publications, 28--3-49 Sanjeevayya colony , Arandalpeta, Vijayawada.

Waddel, Thomas G and Thomas R.Rybolt (2004) "The Chemical Adventures of Shrerlock Holmes", The journal of chemical Education 2003 Vol 80 No 7 .

Werner. W Franke and Briggitta, B "Doping in sport" –symposium from www.webmd.com/././ingredientmono 182 Manganese asp?dated16.1.13.

Wickware, R., K. (December – 1952), "Science Teaching and Creativity, Educational Leadership, 10, 159 – 67.

Walter , R. B., (1963), "Educational Research an Introduction", David McKay Co., I.N.C., NEW YORK,1963—page- 42.

Yadav, M. S, (1996), "Teaching of Science," Second impression, Annual Publications, Government Ltd., New Delhi P-4-5. & 145-154.Yadav.

Young, J. A.; (2002), Journal of Chemical Education 2002 vol 79, No. 4,page 425.

Young, J. A ; (2002), Journal of Chemical Education 2002 vol 79, No. 6,page 672.

Young, J. A. ; (2002), Journal of Chemical Education 2002 vol 78, No. 4,page 1175.

WEBSITES

<http://www.unesco.org/education/educprog/Ste/projects/health/pdf/QUEST-Teacher-en-PDF>. dated. 26-1-2007.

<http://www.unesco.org/education/educprog/Ste/Projects/health/Pdf/QUEST-Teacher-on.PDF>. dated. 26-1-2007

<http://www.thebestmedicalcare.com/Homehealt Monitoring>. dated. 26-1-2007.

<http://indiacoffee.org/newsletter/2004/oct/cover-story.html>.20th international conference on Coffee Science ASIC 2004 11-15 oct, Bangalore.dated. 26-1-2007.

http://swopnet.com/engr/sanitation/India_swewers.html dated 1-2-2004.

<http://www.who.int/media/center/factsheets/fs297/en/print.html> dated. 7-5-2006 (Cholera)

www.journal.au.edu/au-techno/2004/apr04/Vol. 17.num.4-article03.Pdf. dated. 15-5-2007.

www.uml.edu/Media/press Release/release220.htmldated 17-5-2007.

<http://www.Science direct.com/Science/journal/09567135> dated.6-5-2007.

www.Chemistry.org/portal/a/c/s/i/acs display/html dated. 7-6-2007.

www.foodnet base.com/default.asp?id dated. 10-6-2007.

HTML Document date 15-1-2007.

[http:// www. Snlonline. Net /pdfs/syllabi/everyday Chemistry](http://www.Snlonline.Net/pdfs/syllabi/everyday%20Chemistry) dated 16- 9- 2008.

[http:// www.At home science.Com/ Chemistry.Htm](http://www.At%20home%20science.Com/Chemistry.Htm) and listed as chemi kit – 334 only for Deepalal University.dated 16- 9-2008.

Samson. Chem. U mass edu/html/cwwd. Html – dated 16- 9- 2008.

[Http; // www. Cpl. Org/ global climate on ice core researched – global warming-frommuseum of science.](Http://www.Cpl.Org/global%20climate%20on%20ice%20core%20researched%20-%20global%20warming-frommuseum%20of%20science) dated 16- 9-2008.

[http://www.epc.gov/ global warming View of the PA \(Environmental Protection Agency\) on global warming](http://www.epc.gov/global%20warming%20View%20of%20the%20PA%20(Environmental%20Protection%20Agency)%20on%20global%20warming)).dated 16- 9-2008.

[http://. Rsc.org/Education/Eic/issues/2009sept](http://.Rsc.org/Education/Eic/issues/2009sept) dated 12-6-10.

<http://www.eurojournals..com/ejss.12-1-12.pdf> dated 5-6-10

[www. Health. Policy-systems.com/content/7/1/17](www.Health.Policy-systems.com/content/7/1/17). Dated 4-5-10.

[http://chemistry.about.com/u/ua/everyday chemistry/why-is-chemistry](http://chemistry.about.com/u/ua/everyday%20chemistry/why-is-chemistry) from internet on 15.1.13.

[http://chemistry-about.com/u/ua/everyday chemistry/](http://chemistry-about.com/u/ua/everyday_chemistry/) Examples-of- chemistry-in daily-life htm dated 19.1.13.

Fred Sense sense @ antone.frostburg.edu.from internet on 15.1.13.

APPENDIX

3.19. Table showing the obtained chi-square χ^2 values of 40 items.

S.No.	Area -- 1	Area--2	Area—3	Area – 4
1.	123.36	121.77	40.27	64.27
2.	21	120	41.5	88.13

3.	31	115.5	15.5	15
4.	20.2	77.7	36.3	17.8
5.	35	22.13	70.95	193
6.	26	41	25.7	39.6
7.	58.86	46.5	52.5	14.3
8.	16.6	34	53.9	37.9
9.	23.7	38.4	23.64	50.13
10.	31.27	26.36	46.9	15

After the establishment of the strength of the multiple choice statements included in the attitude scale through chi square test, the responses on the 40 items are qualified duly assigning the numerical values 5,4,3,2,1 to a, b, c, d, and e, respectively in the case of positive statements and in the reverse order in the case of negative statements. All the 110 attitude scales are scored by giving the above scoring for further statistical treatment. The obtained scoring is shown in the table.

Tables showing the Difficulty Index and Validity Index of the 40 items for each component in the 4 hidden values.

3.15.1 Food & Nutritive Value

	Who actually know the right answer	The No. who get the right answer	The no. who get the wrong answer	The no. of examinees in the sample	The no. who did not try it	No. of options or choices	Difficulty Index	% of rights in the top 27%	% of rights in the bottom 27%	Validity Index
Q.No.	Po	R	W	N	HR	K	DI			VI
1	58	64	46	110	0	5	0.47	15	13	0.14
2	44	48	62	110	0	5	0.28	14	8	0.11
3	45	49	61	110	0	5	0.28	18	12	0.15
4	59	65	45	110	0	5	0.47	15	14	0.14

5	54	59	51	110	0	5	0.41	16	11	0.13
6	31	34	76	110	0	5	0.17	11	12	0.11
7	63	69	41	110	0	5	0.53	16	14	0.15
8	37	41	69	110	0	5	0.22	10	11	0.11
9	26	29	81	110	0	5	0.08	14	9	0.12
10	45	49	62	110	0	5	0.29	14	9	0.12

The Difficulty Index and Validity Index values show that all the 10 items are valid in the food and nutritive value. So all these 10 items are continued in the Attitude Scale for administration.

3.15.2 Health and Hygienic Value

Health & Hygienic Value

	Who actually know the right answer	The No. who get the right answer	The no. who get the wrong answer	The no. of examinees in the sample	The no. who did not try it	No. of options or choices	Difficulty Index	% of rights in the top 27%	% of rights in the bottom 27%	Validity Index
Q.No.	Po	R	W	N	HR	K	DI			VI
1	45	50	60	110	0	5	0.3	13	11	13
2	32	35	75	110	0	5	0.18	21	13	17
3	50	55	55	110	0	5	0.35	20	9	14
4	38	42	68	110	0	5	0.22	13	6	9
5	43	47	63	110	0	5	0.28	20	16	18
6	39	43	67	110	0	5	0.22	10	15	12

7	27	30	80	110	0	5	0.15	8	14	11
8	33	36	74	110	0	5	0.18	19	10	14
9	45	49	61	110	0	5	0.28	16	17	16
10	48	53	57	110	0	5	0.35	15	11	13

The DI and VI show that all the 10 items are valid in the health and hygienic value. So all these 10 items are continued in the Attitude Scale for final administration.

3.15.3 Medicinal Value

Q.No.	Medicinal Value						Difficulty Index	% of rights in the top 27%	% of rights in the bottom 27%	Validity Index
	Who actually know the right answer	The No. who get the right answer	The no. who get the wrong answer	The no. of examinees in the sample	The no. who did not try it	No. of options or choices				
	Po	R	W	N	HR	K	DI			VI
1	13	14	96	110	0	5	0.03	3	11	0.07
2	20	22	88	110	0	5	0.06	8	5	0.06
3	39	43	67	110	0	5	0.22	18	8	0.13
4	42	46	64	110	0	5	0.3	12	8	0.1
5	66	73	37	110	0	5	0.18	12	8	0.1
6	70	77	33	110	0	5	0.17	8	7	0.15
7	66	73	37	110	0	5	0.18	8	5	0.06

8	65	71	39	110	0	5	0.22	16	7	0.11
9	82	90	20	110	0	5	0.05	4	11	0.07
10	53	58	52	110	0	5	0.33	20	7	0.13

The Difficulty Index and Validity Index values show that all the 10 items are valid in the medicinal value. So all these 10 items are continued in the Attitude Scale for final administration.

3.15.4 Environmental Value

	Who actually know the right answer	The No. who get the right answer	The no. who get the wrong answer	The no. of examinees in the sample	The no. who did not try it	No. of options or choices	Difficulty Index	% of rights in the top 27%	% of rights in the bottom 27%	Validity Index
Q.No.	Po	R	W	N	HR	K	DI			VI
1	48	53	57	110	0	5	0.35	20	7	0.13
2	56	62	48	110	0	5	0.41	15	13	0.14
3	36	40	70	110	0	5	0.22	11	15	0.13
4	43	47	63	110	0	5	0.28	16	12	0.14
5	31	34	76	110	0	5	0.17	7	5	0.06
6	34	37	73	110	0	5	0.18	11	7	0.09
7	35	38	72	110	0	5	0.18	9	7	0.08

8	38	42	68	110	0	5	0.22	18	15	0.16
9	55	60	50	110	0	5	0.41	18	16	0.17
10	33	36	74	110	0	5	0.18	15	9	0.12

The Difficulty Index and Validity Index values show that all the 10 items are valid in the environmental value. So all these 10 items are continued in the Attitude Scale for final administration.

Attitude Scale

Name of the student :-

Class:-

Name of the School:-

Rural Urban:-

Mandal:-

District:-

Write the letter of the choice you choose. Answer all the questions.

Note:- Each statement in the attitude scale is given five alternatives a, b, c, d, and e, and were asked to encircle or to write the appropriate symbol in accordance with their agreement.

In all the tools, the following weight – ages are given, for 4 values,

- 5 – Maximum extent
- 4 –Greater extent
- 3 – Moderate
- 2 –Low
- 1 – Very low

