

Model Test Paper of Seed Science and Technology

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S. Kavitha
K. Raja**



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The Authors

Dr. K. Vanangamudi, Former Dean (Agriculture) and Seed Scientist, graduated B.Sc., (Ag.) in 1975 from Agricultural College and Research Institute, Tamil Nadu Agricultural University, Coimbatore; M.Sc., (Ag.) and Ph.D. in Seed Science and Technology, respectively in 1977 and 1981 from TNAU; and Post Doctoral Fellow (1988-1990) at Mississippi State University, USA. He joined Department of Seed Science and Technology, TNAU as Assistant Professor in 1982 and served the University for 32 years as Associate Professor (1986-1988) at Agricultural Research Station, Bhavanisagar; Professor (1992-2001) at Forest College & Research Institute, Mettupalayam; Professor and Head (2001-2003) of Department of Seed Science and Technology; Dean, Adhiparasakthi Agricultural College (2003-2006), Kalavai; and Dean (Agriculture), Agricultural College and Research Institute, TNAU, Coimbatore (2006-2009). He retired from service on August 31, 2013

He has undergone Post Doctoral Programme in Tree Seed Technology at Mississippi State University, USA from 1988-1990 and visited USA, Japan and Canada in connection with Forestry education and research under USAID-Winrock International program. He underwent training on e-learning and web based teaching at UC, Davis and Cornell University, USA during 2017.

Dr. Vanangamudi's significant contributions in Agricultural Education are 1. Starting B.Tech (Bioinformatics), B.Tech (Agricultural Information Technology) and BS (Agribusiness Management) degrees at AC&RI, Coimbatore, and B.Sc (Horti.) degree at AP Agricultural College; 2. He introduced e-education and online examination; 3. Under NAIP project on “Development of e-courses for B.Sc., (Ag) degree program as Co.PI, he developed e-learning materials for all the 50 courses and hosted in TNAU and ICAR websites; and 4. Video streaming of lecture presentation by the teachers in the classroom (video filming, editing and publishing).

He has prepared course materials for 90 courses for Industrial Training Institute (ITI) program in Agriculture, Horticulture, Agricultural Engineering, Animal husbandry, Poultry, Food processing under “Modular Employment Skills” and “Centre of Excellence” funded by National Instructional Media Institute, Ministry of Labour & Employment, GOI, Chennai, for the students and instructors of ITI all over India.

As a researcher, he was the Principal Investigator of 11 research projects funded by ICAR-NAIP, ICAR-World bank, ICFRE-World bank, Tamil Nadu Forest department, Ministry of Labour and Employment (GOI), CIDA-Gulpeh, Canada and Private agencies.

Dr. Vanangamudi has published 2 review papers, 35 research papers in International journals, 112 research papers in National journals, 29 popular articles in English and 53 in Tamil. He has written 40 books in English and 10 in Tamil. He has also written 11 technical bulletins in English and 29 in Tamil.

In recognition of his contribution in Agriculture Education, Research and Extension, he was awarded with Best PG teacher award in 1998 and Best scientist award in 1999 by TNAU; Best PG Teacher award 2000 by Madras Agricultural Students Union (MASU), Coimbatore; Best Seed Scientist award in 2003 by Hisar Agricultural University (HAU), Hisar; Tamil Nadu Scientist award in 2006 by Tamil Nadu Council for Science and Technology (TNCST), Chennai; Best Research Paper award in 2005 by Indian Society of Seed Technology (ISST), New Delhi and Bharat Ratna Dr. C. Subramaniam Best Teacher award in 2006 by Indian Council of Agriculture Research (ICAR), New Delhi.

He is a recognized guide of Bharathiar University, Coimbatore; Bharathidasan University, Trichy and Forest Research Institute, Dehradun.

He was a Research and Technical Consultant to Little's Orientals Balm and Pharmaceuticals Ltd., Chennai for seed priming, seed film coating and setting up of Seed Research Lab; to a farmer for 200 acres of farm land development; to a EU-KKID-Peace trust project for end term evaluation; and to a Kerala Forest Department project (World Bank) for developing training course syllabi and establishment of seed processing and testing units. He served as Senior Advisor and Consultant to Dr Mohan's Health care Products Ltd., Chennai.

Ms. M. Kokila is now working as Junior Research Fellow, Trinity Cultural Academy, Coimbatore. She graduated B.Sc., (Agri.) from Agricultural College and Research Institute (TNAU), Kudumiyamalai, Pudukkottai in 2019.

She has participated in Personality Development Workshop held on 21st & 22nd January 2019 in AC & RI, Kudumiyamalai and undergone a Industrial training under Industrial Tie-Up Programme with J. M. Industry, Pudukkottai, Tamil Nadu. She has undergone ten days internship with NGO (Vrutti). She has conducted training to the farmers on seedling treatment with biofertilizer and sugarcane trash composting during her UG program at KVK, Vamban. She also served as a National Service Scheme volunteer (2015-17) and committee leader in various college functions (2018-2019).

Dr. S. Kavitha graduated B.sc., (Agri.) in 1999, M.Sc., (Agri.) and Ph.D. in Seed Science and Technology, respectively in 2002 and 2005 from Agricultural College and Research Institute, Tamil Nadu Agricultural University, Coimbatore. She was awarded with Senior Research Fellowship for doctoral research. She joined as Assistant Professor in the Department of Seed Science and Technology in 2009 and worked as a programme coordinator, KVK, Ramanathapuram since April 2018. Now she is working in the Department of Plant Genetic Resources, TNAU, Coimbatore since November, 2019. She has got ten years of experience in teaching, research and extension.

She has authored three books, 23 book chapters and 22 popular articles and published 14 research articles in national and international journals. She has excellent research experience by heading eight research projects as Principal Investigator and 10 research projects as Co-Principal Investigator funded by various agencies.

She has attended two International conferences, two International workshops, 20 National trainings, two 21 days trainings, seven National seminars and five workshops. She also conducted and co-ordinated various On Farm trials (OFt), Front Line Demonstrations (FLD), Farmers Field School (FFS), Integrated Farming System (IFS), Entrepreneur Development Programme (EDP), 88 on campus trainings, 32 off campus trainings, 3 vocational trainings, 6 seminars, 26 exhibitions, three sponsored trainings and delivered 78 special lectures as resource person to farmers and extension functionaries. She organized one ICAR winter school.

She has guided two M.Sc. (Ag) students as chairperson. She was awarded with Dr.M. Balakumarasamy award for the best Ph.D. student in 2005, Thiru. V.K. Kumarasamy award and Coimbatore Seed Corporation prize for the best M.Sc., (Agri.) student in Seed Science and Technology in 2002 and also received best paper (oral) presentation and best poster presentation awards.

Dr. K. Raja, Associate Professor working in the Department of Seed Science and Technology, Tamil Nadu Agricultural University, Coimbatore. He has vast experience in seed production, teaching, research and extension. He has received the Best Seed Production Scientist Award and Best Paper Presentation Awards. With several international and national articles to his credit he has authored three books that have been well received by the peer community.

Preface

Indian agriculture has made tremendous growth after Independence. Food production has increased from 50 million tons in 1947 to 283 million tons in 2017-18. The landmark achievements in agriculture since 1960's are due to introduction of high yielding varieties, increased use of fertilizers and other inputs, expansion of irrigation facilities, effective extension efforts, improved agronomic practices, and besides all, the valuable contribution of Indian farmers.

However, the use of high quality seeds plays a pivotal role in crop production to achieve food security. The performance and efficacy of other inputs also depend on the use of quality seed. Good quality seed alone contributes for 15-20 per cent increase in the yield of crops.

Importance of seed in Indian Agriculture gave a great scope to design curriculum on Seed Science and Technology in undergraduate and post graduate levels at different State Agricultural Universities. Students and scholars showed a lot of interest in specializing Seed Science and Technology and look for good positions in both public and private organizations. To secure a good score in competitive exams, they have to excel well in the exams as well as personal interviews and group discussions.

To meet out the needs of the students and scholars, efforts are taken to compile the book on "Model Tests of Seed Science and Technology". This book will be a useful guide to the students and scholars, who are specializing in Seed Science and Technology.

February, 2020

K. VANANGAMUDI



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