

Question Bank on Veterinary Public Health and Food Safety

There has been unprecedented advancement in the field of veterinary public health in the last 10 years. The futuristic demand of society on the issues such as food safety and quality, healthy ecosystem to sustain the life, monitoring and surveillance of animal diseases, prevention and control of Zoonoses, National and International rules and regulations to facilitate international trade have posed challenges to veterinarians. That's why in newly structured course curricula and syllabi of VCI, all the aspects have been brought under the one umbrella i.e. Veterinary Public Health and Epidemiology. The informal discussion among the veterinary academicians and students over the years referred the need of a book comprising questions for the graduates of veterinary science aspiring for higher education and competitive examination. The author has attempted to cover some significant aspects of veterinary public health. This book is the compilation of various types of objective questions on Veterinary Public Health. It comprises of 4 chapters viz. Veterinary Public Health and Food Hygiene, Milk Hygiene, Meat Hygiene and Environmental Hygiene along with their answer key in the last. The questions have been designed to reflect the present day need and trend in veterinary education in the form of fill in blanks, true false statements, multiple choice and matching questions. The author has taken great care to confirm the accuracy of information presented in this book.



Dr. Namita Joshi is Professor and Head, Department of Veterinary Public Health and Epidemiology at College of Veterinary Science and Animal Husbandry, Narendra Deva University of Agriculture and Technology, Faizabad (UP). Dr. Joshi graduated in 1992 in Veterinary Science and Animal Husbandry from G.B. Pant University of Agriculture and Technology, Pantnagar (Uttarakhand). She did her Master's degree and Ph.D. from the same university in year 1994 and 2001, respectively. Dr. Joshi has been associated with teaching of Veterinary Public Health and Epidemiology in G.B. Pant University of Agriculture and Technology, Pantnagar and N.D. University of Agriculture and Technology, Faizabad for last 10 years. She has about 50 research papers to her credit published in reputed National and International Journals and developed two manuals for under graduate students on 'Milk and Meat Hygiene, Food Safety and Public Health' and 'Veterinary Epidemiology and Zoonoses'. Dr. Joshi has been elected member of Indian Association of Veterinary Public Health Specialists. She is also Assistant Editor in the Journal of Immunology and Immunopathology and acting as reviewer in many journals.



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Question Bank on Veterinary Public Health and Food Safety

*for Ready Reference to the Students, Teachers and
Researchers, Civil Service Examinations (State and
Central), NET, Ph.D. and Allied Examinations*

The Author



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Foreword

Veterinary public health is a multidisciplinary subject that caters needs of all aspects of health. All the issues pertaining to animal, human and environmental health are well addressed within the ambit of veterinary public health. Veterinary Public Health directly improves human health by reducing exposure to hazards arising from interactions with animals and animal products. Examples of these hazards include zoonoses, vector-borne infections and other communicable diseases, chemicals and veterinary drugs used in animals, envenomations, and injuries from occupational and recreational exposure to animals. Although the concept of Veterinary Public Health originated in 1940 at Centre for Disease Control and Prevention, Atlanta, USA. Later, it was recognized as essential component of public health activity in 1975 by the expert committee of FAO/WHO. Since then, the scope of Veterinary Public Health has been expanding all over the world. Keeping pace with rapidly growing and changing world, Veterinary Council of India, the statutory body of Government of India, has introduced Public Health in Veterinary course curriculum and created a separate department of Veterinary Public Health. The VCI has implemented Minimum Standard of Veterinary Education-Degree course (B.V.Sc. & A.H.) Regulation, 1984, to regulate the veterinary undergraduate education. Thus, the subject of veterinary public health became an imperative part of veterinary education. Since, the Department of Veterinary Public Health came in existence in many colleges in late 1990s only after the implementation of VCI Regulations; both teachers and students face difficulties in procuring the study material of the subject.

The objective of an enhanced VPH curriculum is to provide graduates of all learning backgrounds with up-to-date knowledge and expertise, so that they can actively contribute to VPH programmes. Dr. Namita Joshi, Professor and Head, Department of Veterinary Public Health and Epidemiology has very timely identified the difficulties; the students are facing in competitive examinations and created this question bank with their answers to provide readymade supplementary material for competitive examination. The book comprises 4 chapters on Veterinary Public Health and Food Hygiene, Milk Hygiene, Meat Hygiene and Environmental Hygiene covering almost all aspects of Veterinary Public Health. The questions are coined very meticulously and ready answers are provided at the end of each chapter.

I am confident that her efforts in the form of book entitled "Question bank on veterinary public health and food safety" will prove very useful for the veterinary graduates and teachers. I wish that all veterinary students make full use of this compilation for their own benefit and the benefit of the society as a whole.



(Akhtar Haseeb)

Preface

Veterinary Science has helped in reducing animal suffering, minimizing risk of zoonotic diseases threatening human health and food security. There have been unprecedented advancement in the branches of veterinary science in fast few decades. The futuristic requirement of society on public health, food safety and quality, healthy ecosystem, containing bioterrorism, profitability and stability of livestock farming system have posed greater challenges to veterinary academician and scientific community. Today, veterinarians are increasingly involved in prevention and control of zoonoses and emerging pathogens, eco-health stewardship, monitoring and surveillance of animal diseases, combating bioterrorism, genetic engineering to optimize production, develop disease resistant breeds of animals and handle the vetero-legal cases of speciation. All these issues pertaining to animal, human and environmental health are well addressed within the ambit of veterinary public health. Because veterinary public health is a multidisciplinary subject that encompasses knowledge of food hygiene, ecology, environmental hygiene, zoonoses and epidemiology, pathobiology, molecular biology besides public health education and administration. In a broader sense, it covers every aspect of veterinary activities related to human health. In this perspective, significant modifications have been made in the syllabus of under graduate courses by Veterinary Council of India and post-graduate courses by Indian Council of Agricultural Research to respond to futuristic social need. Although, at undergraduate level, veterinary students acquire comprehensive knowledge and skills in all veterinary courses but the students aspiring for higher education, JRF and/or ARS/NET examination

need a consolidated question bank of veterinary public health courses. This book in a way is an outcome of long term study and teaching in veterinary public health at undergraduate and post-graduate levels. The book will provide opportunity to the students to prepare themselves as per the need of hour and to understand their lacunae in the field of public health. The contents of the book have been organized into four chapters viz. Food Safety and Veterinary Public Health, Food Hygiene, Milk Hygiene, Meat Hygiene and Environmental Hygiene. I hope the students and teachers in the field of veterinary public health would find the organization of book useful and encourage the student to do more exhaustive study.

I take this opportunity to express my gratitude to Dr. Akhtar Haseeb, Vice Chancellor of Nrandera Dev University of Agriculture and Technology, Kumarganj for his constant inspiration and encouragement to veterinary faculty. I also thank Dr. H.N. Singh, Dean, College of Veterinary Science & A.H. for his kind support.

At last, I am very much grateful to my husband Dr. R.K. Joshi for giving his time to time valuable suggestions. My vocabulary utterly fails in expressing my accolade to my mother Smt. Kamla Pant, who brought me upto this stage. I am also grateful to my kids Trishala and Pushpit for their cooperation and forbearance.

Namita Joshi

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