

## APPENDIX - I

**SCHEME AND SYLLABUS OF EXAMINATION OF THE SIKKIM STATE ANIMAL HUSBANDRY & VETERINARY SERVICE**

The examination will consist of 3 (three) papers, namely:-

PAPERS	SUBJECT	FULL MARKS	TIME ALLOWED
PAPER-I	General English	50	1 hour
PAPER-II	General Knowledge	50	1 hour
PAPER-III	Animal Husbandry and Veterinary Science	300	3 hours
	INTERVIEW	50	-

**PAPER-I: GENERAL ENGLISH:**

Candidates will be required to answer questions designed to test their understanding of English and workman like use of words. The pattern of questions would be broadly as follows, namely:-

1. Comprehensives of given passage,
2. Precise writing
3. Usages and Vocabulary,
4. Short essay

**PAPER-II: GENERAL KNOWLEDGE**

Knowledge of current events of local, national and international importance and such matters of everyday observation and experience in their scientific aspects as may be expected of an educated person who has not made a special study of scientific subject. The paper will also include questions on Indian Culture, Indian Polity, Indian Economy and Geography of India or such other matter a candidate should be able to answer without special study.

**PAPER -III**

The question will be CONVENTIONAL TYPE and will cover areas of knowledge of the following subject and topics :-

**ANIMAL HUSBANDRY & VETERINARY SCIENCE.****1. ANIMAL MANAGEMENT :**

Management of Livestock (Pregnant and Lactating cows, new born calves) and their housing. Poultry management, Angora rabbit management and its housing on commercial basis.

**2. NUTRITION , CLASSIFICATION OF FEEDS :**

Feeding standards and various conservation/storing methods of feed and fodder, computation of ration for broilers ( poultry ), cattles and pigs. Feeding standards and various types of micro-nutrients, their deficiency diseases.

3. **GENETICS :**

Elements of genetics, various economic traits of livestock, Breeds of indigenous and exotic cattle, goats, pigs, poultry and rabbits (wool producing and broiler) , different genetics terminology. Laws of hereditary, Principles of breeding.

4. **MEDICINES :**

Description, symptoms, causative agent, prevention and treatment of various diseases affecting livestock. Bacterial diseases of Bovine : H.S., B.Q., Anthrax, Brucellosis, Tetanus, Leptospirosis, Tuberculosis, Johne's disease.

Viral disease such as F.M.D., Rinderpest, cow pox, Bovine contagious Pleuro – Pneumonia, Malignant catarrh. B.W.D., Ranikhet, I.B.D., Coccidiosis, Mareck's Disease, C.R.D. in poultry.

Canine Disease such as Rabies, canine distemper, Parvo virus infection, Leptospirosis, Canine Hepatitis.

**METABOLIC DISEASES OF CATTLE :**

Deficiency diseases of bovine, canine, porcine and some non-specific diseases affecting, digestive & respiratory system of cattle. Protozoan diseases- surra, thilericis, Anaplasmosis, Fileriasis, babesiosis.

5. **ANIMAL BREEDING, GYNAECOLOGY & OBSTETRICS :**

A.I. Embryo Transfer Technology, Repeat breeding, sterility, various genital diseases of Bovine & canine, Dystokia, Oestrus Cycles, Types of Placenta.

6. **SURGERY :**

Classification of Anaesthesia, various caesarian technique in cattle & canine, sterilization technique of stray dogs, various Laprotomy surgical technique like- T.R.P. Rumenotomy, Diaphragmatic hemis, Anastomosis.

7. **PHARMACOLOGY :**

Pharma co dynamics, classification of antibiotics, Sulphonamides, Quinolones, Aminoglycosides, Cephalosporins and their therapeutic uses, various poisoning & their therapeutic measures/ Antidotes various Pharmacological terminology- pharmaco-kinetics, Blisters, Sedatives, tranquillizers, Alkaloides. Anti-zymotics, carminatives, drug allergy.

8. **Bacteriology & Virology :**

Classification and Morphological structures of streptococci, staphylococci, E. Coli, Salmonella, Corynebacterium, pseudomonas, Staining methods like Gram's stain, Acid-fast stain, various bacteria causing mastitis and it detection technique, Antibiotic sensitivity test.

9. **MAJOR ZOO NOTIC IMP. DISEASES :**

10. Various Vaccination schedule of Bovine, canine & Poultry latest geneticengineered vaccines.

11. Veterinary Jurisprudence relating to cruelty to Animals. Glander's Act, Animal transporation Act, Slaughter Act. Ante-mortem and Post-mortem examination.

12. Various types of Ecto and Endoparasites affecting the domesticated animals and birds, their prevention control and treatment.

## INTERVIEW

The candidates will be interviewed by the Commission who will have before them a record of his career. He will be asked questions on matters of general interest. The object of the interview to assess the personal suitability of the candidate for the Service.

The test is intended to judge the mental caliber of candidate. In broad terms this is really an assessment of not only his intellectual qualities but also social traits and his interest in current affairs. Some of the qualities to be judged are mental alertness, critical powers of assimilation, care and logical exposition, balance of judgment, variety and depth of interest, ability for social cohesion and leadership intellectual and moral integrity.