

**SCHEME & SYLLABUS OF PROPOSED EXAM FOR RECRUITMENT TO THE POST OF
LIVESTOCK DEVELOPMENT ASSISTANT IN THE DIRECTORATE OF ANIMAL
RESOURCES AND ANIMAL HEALTH UNDER THE ANIMAL RESOURCES DEVELOPMENT
DEPARTMENT, GOVT OF W.B.**

(ADVT NO. : 11/2019)

No. of Question : 100, each carrying 1 mark.

Duration : One hour and thirty minutes.

Type of Test : MCQ

Break up of 100 Questions :

Subject: Syllabus of one year certificate course on

Prani Sampad Vikash Sahayak Prasikshan – 50 Questions.

English – 15 Questions

(Madhyamik Standard)

Quantitative Aptitude – 15 Questions

(Madhyamik Standard)

General Knowledge & Current Affairs – 20 Questions

N.B. : There will be negative marking for wrong answers as per norms. [one mark to be deducted for wrong answer of 3 questions]

Syllabus of one year certificate course on Prani Sampad Vikash Sahayak Prasikshan

1. Elementary studies of skeleton and organs of livestock

1. Introduction, definition of anatomy. Different systems with viscera.
2. Surface anatomy.
3. Location of surface veins, artery, nerves and lymph nodes.
4. Preliminary knowledge about important muscles, tendons, ligaments, cartilages, hoof, teeth, horn, body cavity, mouth and reproductive organs.
5. Preliminary knowledge on anatomy of chicken and duck.

2. Elementary knowledge of animal physiology

1. Introduction, definition and terminology.
2. Elementary knowledge of function of different organs & systems in animals and birds.
3. Ele.knowledge of composition of blood and its functions

3. Basics of Animal Production and Management: Restraining of animals

1. Introduction and common terms used in the animal production.
2. Factors affecting health & productivity of animals & birds
3. General idea about housing of animals and birds
4. Care and management of animals and birds during transportation
5. Principles of sanitation in Livestock
6. Different types of fodder and grassland in livestock production, identification of common toxic plants
7. Preliminary knowledge of production of fodder round the year in West Bengal
8. Keeping of accounts.

4. Elementary knowledge of pharmacy

1. Introduction, definitions of pharmacy, pharmacology, therapeutics, toxicology
2. Knowledge about the medicinal plants & their uses
3. Pharmaceutical terms and definition

5. Extension, motivation for better production, elements of maintenance of records: preparation of balance sheet.

1. Definition, philosophy and principles of extension, mass education, motivation, aims and objectives
2. Detection of resources persons & persuasion of research & extension works
3. An outline of different livestock development programs of WB
4. Various types of livestock farming
5. Sources of credit, concept of loan and subsidy, bank and other financial institutions
6. Role of animal resources as a medium of rural economic development in West Bengal
7. Panchayat system, co-operative societies and other development departments associated with AH. Planning program

6. Animal feeds and fodder

1. Digestive system and mechanism of digestion, in ruminants, non-ruminants and birds
2. Elem. Knowledge of feed evaluation
3. Knowledge of preparation of animal feed
4. Knowledge of preparation of balanced ration for livestock

7. Basics of livestock farming, hygiene and disinfections, segregation of diseased animals etc.

1. Housing, day to day care management of new born young stock, growing animals, adults male and female, female animals, pregnant and lactating animals/layers, harvesting of products of the following species

- a) Cattle and buffalo
- b) Sheep and goat
- c) Pig
- d) Rabbit and lab. Animals
- e) Poultry (including duck and quail)

8. Animal Breeds and Breed improvement

1. Concept of species, breed, strain and variety
2. Different breeding methods for breed improvement
3. Breeding programs for different animals and birds currently in operation in West Bengal
4. Introduction, history and development of artificial insemination
5. Advantages and limitations of artificial insemination

9. Disease prevention-Elementary vet-first aid and injections through various routes

1. Introduction definition and different terms
2. Classification of disease
3. General guideline about first aid veterinary practice
4. Definition, symptoms of a) Non-contagious disease viz. stomatitis, choking, ruminal impaction tympanitis, mastitis, metritis, pyrexia, anorexia, conjunctivitis, dysentery, diarrhea, milk fever, heat stroke, recognition the symptom of bacterial diseases like Antrax, H.S., B.Q., Brucellosis, Fowl Cholera, Viral diseases like FMD, RP, Cow Pox, Rabies, RD, FP, Duck plague, Swine fever, Parasitic Diseases: Coccidiosis, Piroplasmosis, Theileriasis, Trypanosomiasis, Ascariasis, Fascioliasis, Schistosomiasis, Hookworm, strongylosis, taeniasis, Tick and mange infections, ring worm, scabies, crop bound.

10. Collection and dispatch of clinical and pathological materials

1. General precaution while working with microorganism, techniques of collection and dispatch of common pathological materials for laboratory examination, collection and dispatch of materials of Forensic laboratory in medico-legal cases and their preservation before dispatch and transportation

11. Sterilization of surgical instruments and aseptic precautions in vet. Surgical techniques.

1. Preliminary knowledge of principles of surgery
2. Preliminary knowledge of common surgical conditions
3. Pre-operative and post-operative precautions to be undertaken

12. Reproductive disorders

1. A general review of physiological background of female reproduction
2. Preliminary knowledge in parturition in domestic animals
3. Parturition hygienic measure during parturition
4. Preliminary knowledge of care and management of newborn and dam
5. Preliminary knowledge on care and management of pregnant animals

13. Necked eye changes of the organs in various diseases

1. Classification of animal pathogens
2. Common vaccine and their field uses, period of immunity, route of inoculation method of reconstituents
3. Pathogenicity, virulence and immunity after diseases and vaccination
4. Elementary knowledge of parasitology

14. Handling of animal products and methods of preservation and dispatch

1. Composition and properties of milk
2. Bacteriology and deterioration of milk
3. Packaging and distribution
4. Sanitation in milk plant.
5. Pre-slaughter care, handling and transport of meat animals and birds
6. Utilization of slaughter house by-products

15. Animal disease vaccination and control

1. Concept of epidemiology and in the prevent of animal diseases
2. Ele. Knowledge different types of diseases, viz. infectious, contagious, bacterial, viral, parasitic with suitable examples
3. Preliminary knowledge on communicable diseases
4. Disease process and its spread
5. Duties, conducts of para-vetrinary staff
6. Legal aspects of post-mortem examination
7. Preliminary knowledge of provincial and central acts relating to animal diseases, public health and slaughter control