



Government of Jammu & Kashmir
Department of Animal Husbandry, Jammu

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No: - DAHJ/Tech-10/ **2888-915**


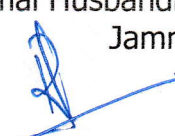
Dated: - **04 / 12 / 2021**

Copy of the Government Order No: 197-JK(ASH) of 2021 dated: 22-11-2021 regarding "**Guidelines and Syllabus for Departmental Trainings of Animal Husbandry Department**" received from the Administrative Department is hereby forwarded to:-

- 1/ Chief Executive Officer, Livestock Development Board, Belicharana Jammu.
- 2-4/ Joint Director, Farms/Poultry Belicharana Jammu/ARV Lab R.S.Pura.
- 5-14/ Chief Animal Husbandry Officer, Jammu/Kathua/Samba/Udhampur/Reasi/Doda/Kishtwar/Ramban/Rajouri/Poonch.
- 15-18/ Deputy Director, AH/Poultry/Research & Production/Planning & Statistics, Talab Tillo Jammu.
- 19/ Liver Fluke cum Rinder Pest Control Officer (AHD), Talab Tillo Jammu.
- 20/ Epidemiologist, AICRP on FMD, Talab Tillo Jammu.
- 21/ Principal, Stock Assistant Training Institute, Belicharana Jammu.
- 22-23/ Superintendent, CVH Talab Tillo Jammu/SDVH R.S.Pura.
- 24/ Manager, Frozen Semen Bank, Belicharana Jammu.
- 25/ Incharge, Central Artificial Breeding Station, Hakkal Jammu.
- 26/ Extension Officer, Publicity Wing, Directorate of Animal Husbandry Jammu.
- 27/ Accounts Officer, Directorate of Animal Husbandry Jammu.
- 28/ I/c Website, Directorate of Animal Husbandry, Jammu.

.....for information and necessary action.

Enclosures: 11 (Eleven Leaves)


Deputy Director (AH)
Animal Husbandry Department
Jammu


Government of Jammu and Kashmir
Animal / Sheep Husbandry & Fisheries Department
Civil Secretariat, Srinagar / Jammu

Subject: Guidelines and Syllabus for Departmental Trainings of Animal Husbandry Department.

Ref: Letter No. DAHJ/Tech-10/2635 dated 20.05.2021 from Director, Animal Husbandry, Jammu.

Government Order No: 197-JK (ASH) of 2021

Dated: 22-11-2021

Sanction is hereby accorded to Departmental Trainings for in-service Veterinary Pharmacists and Attendants, appointed/recruited into the service and are on probation and have not undergone training previously, as per following guidelines:-

A) Application

- i. These guidelines shall be called "Jammu & Kashmir Animal Husbandry Department guidelines" for training of Veterinary Pharmacists & Attendants and shall come into force from the date of issuance of this Government order.
- ii. The Departmental training shall be conducted at Stock Assistants Training Institutes established by the Government for the purpose and henceforth the name of the institutes shall be "Paravet Training Institute".
- iii. The name of the course shall be "Veterinary Pharmacist Training Course". The duration of training shall be one year and training session shall commence from 1st of April every year.
- iv. These guidelines shall be applicable for the Departmental training of in-service Veterinary Pharmacists and Attendants.

B) Pattern of the course

The one-year training course named as **Veterinary Pharmacist Training Course** shall be divided into four trimesters of three months duration each. The first three trimesters will comprise of theoretical training and the last trimester will be meant for practical training. The first three

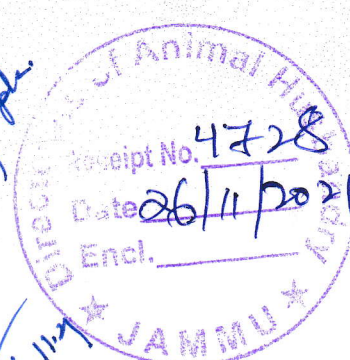
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All DDOs Ph. for info.



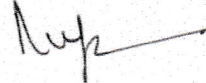
trimesters will have only an internal assessment with two papers, each comprising of 50 marks. The final examination, set by the experts, at the end of fourth trimester will consist of three theory papers, each with 50 marks, covering the syllabus of the first three trimesters (50 marks for each trimester). This will be followed by a practical examination of 50 marks on practical training including maintenance of practical record book (5 marks), spotting/ experiment (20 marks), short answer type question paper (10 marks), Computer Application and INAPH data uploading (10 marks) and Viva voice examination (5 marks). The overall grade of trainees will be out of Five Hundred marks (300 marks for internal assessment, 150 marks Final Examination, 50 marks for final practical examination). For successfully passing the training course, each trainee shall secure minimum (33%) marks in internal assessment of each paper, (33%) marks in final examination in each paper and (33%) marks in practical examination. The theoretical part of education will be imparted to trainees during first nine months of training period, which shall be divided into three trimesters, the last three months (4th trimester) of practical training shall be divided as follows:-

1. Ten days practical training at different departmental laboratories of Srinagar/Jammu.
2. 5 days practical training at Frozen Semen project, Ranbirbagh/ Hakkal.
3. 5 days practical training at Livestock Development Board Jammu/Srinagar regarding INAPH web portal.
4. Ten days practical training at Poultry Project, Hariparabath / Belecharana.
5. Forty five days practical training at Field Centres under the supervision of Livestock Development Officer or Veterinary Assistant Surgeon of concerned districts, as per the schedule framed by the concerned Principals.
6. 10 days training for basic applied computer science.
7. 5 days training of capacity building and improvement /doubt clearing classes at both the Institutes.

C) **Admission & Eligibility for departmental candidates**

i) **Total Number of Seats**

The intake capacity of each training institute shall not be more than 55 candidates. First priority for the training shall be given to the candidates selected as Veterinary Pharmacists through

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JKSSB and the remaining seats shall be fulfilled from departmental candidates and equal percentage of candidates shall be selected from each district and also from Divisional cadre posts based on total number of Attendants posted in respective District and Division.

ii) Eligibility

Candidates selected as Veterinary Pharmacists through JKSSB and departmental Attendants (Divisional/District Cadre) as per the seniority having minimum qualification 10+2 and five years of service in the cadre;

iii) Admission

- On the recommendation of Chief Animal Husbandry officer of respective District in respect of officials borne on District Cadre posts and Joint Director, Poultry in respect of officials borne on Divisional cadre posts strictly on the basis of seniority and quota. Such recommendations shall be submitted to the Director, Animal Husbandry Department, Jammu / Kashmir latest by 1st March for scrutiny by a committee comprising of Superintendent, CVH, Jammu/Srinagar, Principal Paravet Training Institute and Deputy Director (AH) and shall submit report to Director, Animal Husbandry, Jammu/Kashmir for issuance of the deputation orders in favour of trainees (including candidates selected through JKSSB) latest by 20th March.
- The trainees shall continue to draw their salary from their original place of postings on production of Attendance certificate from the Principal, Paravet Training Institute concerned.
- The trainees shall remain under administrative control of the Principal concerned during the training period and shall continue to be governed by service rules as may be applicable to them in vogue.
- The trainees shall serve the department for at least three years as Attendant after completion of the training but shall refund whole salary received during the training in case he/she leaves the department prior to three years after completing the training. He / she has to furnish an

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affidavit/undertaking to this effect at the time of joining at the Training Institute.

- A special batch shall be started if 15 or more than 15 new candidates will be recruited directly by SSB in the mid session.

D) **Examination:**

After completion of training course, examination shall be conducted at respective training institutes on such dates as may be fixed by the Committee comprising of following members headed by the Director, Animal Husbandry Department, Jammu and Kashmir:-

- i. Deputy Director (AH) Jammu/Kashmir
- ii. Principal, Paravet Training Institute, Jammu/Kashmir
- iii. Superintendent, Central Veterinary Hospital, Jammu/Srinagar.

The committee shall nominate the officers not below the rank of LDO for setting up of question papers for final and practical examinations. The committee may also nominate following officers/officials (outside the staff posted in Training Institutes) for smooth conduct of the examination:-

- i. One Superintendent (Gazetted) not below the rank of LDO.
- ii. Three Invigilators (Gazetted) not below the rank of VAS.
- iii. One Assistant (Non-Gazetted) not below the Pay Level-6.
- iv. Two Attendants (Class-IV).

The Committee shall be personally responsible for maintaining secrecy, sanctity and conduct of entire examination process.

Examination Schedule

Annual Examination shall be held in the month of April after notifying the date sheet before one month of the examination by the concerned Principals.

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Bi-Annual Examination shall be held in the month of June after notifying the date sheet before one month of the examination by the concerned Principals.

E) **Declaration of Result**

Principals concerned shall notify the result within one month from the date of completion of examinations (Annual as well as Bi-Annual), after seeking approval from the Director, Animal Husbandry Department, Jammu/Kashmir.

F) **Issuance of Marks Card and Certificate**

Marks card shall be issued by the concerned Principals, whereas Diploma Certificates to the successful candidates shall be issued by the Director, Animal Husbandry Department, Jammu/ Kashmir as prepared by the Principal concerned.

G) **Misconduct**

Candidates found involved in unfair means, guilty of misconduct or deliberate disobedience of rules or candidates who reportedly refuse to conform to the procedure prescribed for the conduct of Training may be discharged and shall have to report back to his original place of posting. Such candidates shall be barred from undergoing training minimum for two sessions. A probationer recruited directly who is discharged or a departmental candidate reverted back, shall have to refund the entire charges of training course and any other expenses which the Government may have incurred in connection with his/her training before discharging or reversion as specified in the agreement. This will be initiated without prejudice to any other disciplinary action which may be initiated in case of trainees already in-service as per relevant applicable service rules.

H) **PROVISION OF XEROX COPIES AND REVALUATION**

Candidates can apply to the concerned Principals for Xerox copies of answer sheets within ten days after declaration of results, against the charges of Rs.100/- per paper. Candidates desiring re-evaluation of their answer sheets can apply within 15 days from declaration of results against the charges of

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Rs.250/- per paper, beyond which no such request shall be entertained.

I) **Syllabus:**

The detailed syllabi for Departmental trainings shall be as given in Annexure (A) to this order. The Government in consultation with the Director, Animal Husbandry Jammu / Kashmir may from time to time revise the syllabi as may be required.

The Government may from time to time supplement these guidelines with further instructions as may be required.

By order of the Government of Jammu and Kashmir.

Sd/-

**(Navin K. Choudhary), IAS
Principal Secretary to the Government
Animal / Sheep Husbandry & Fisheries Department**

No. ASHF-AH0NGAZ/23/2021-03

Dated: 22-11-2021

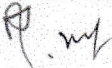
Copy to the:-

1. Joint Secretary (Jammu, Kashmir & Ladakh), Ministry of Home Affairs, Government of India, New-Delhi.
2. Director, Animal Husbandry Department, Jammu / Kashmir.
3. Director, Archives, Archaeology and Museums, J&K.
4. OSD to Advisor (B) to the Hon'ble Lieutenant Governor.
5. Private Secretary to Principal Secretary to the Government, Animal / Sheep Husbandry & Fisheries Department.
6. Incharge Website, ASH&F Department.
7. Government orders file (w.2.s.c)


(Romesh Kumar Giri)

22.11.2021

**Under Secretary to the Government
Animal / Sheep Husbandry & Fisheries Department**



ANNEXURE (A) TO GOVERNMENT ORDER NO. 197-JK(ASH) OF
2021 DATED 22-11-2021.

Syllabus:- The detailed Syllabus for the training course shall be as under:-

(i) First trimester

Name of Subject:- Basic Veterinary Sciences

Unit 1: Basic Animal Husbandry:- Introduction to animal husbandry, Basic terms and definitions, Livestock population as per latest census, Common breeds of cattle and buffalo, body points of cattle, horse and poultry. Housing and routine management practices, restrain and casting of animals; Duties of veterinary pharmacist as extension worker.

Unit 2: Introductory Anatomy and Physiology of domestic Animals :- Basic anatomy and physiology of digestive, cardiovascular, respiratory, nervous, excretory, reproductive and Nervous systems of domestic animals cattle, chicken, horse and dog.

Unit 3: Animal Nutrition:- Animal nutrition; types of Feeds and fodders; Principles of feeding pregnant and lactating cows; concept of hydroponic fodder, Silage making, feed/fodder fortification, Cattle / Poultry feed formulation and introduction to ration balancing program.

Unit 4: Introduction to Poultry Science:- Types of poultry birds and breeds of poultry; Different housing/rearing systems; Layer and broiler farming; Hatchery management and Bio-security of a poultry farm.

(ii) Second trimester

Name of the Subject:- Para Clinical Veterinary Sciences

Unit-1 :- Basic microscopy, parts of a microscope and its maintenance, what is a cell and parts of cell, Difference between bacteria and virus, Common animal diseases caused by bacteria, virus, Fungi, protozoans etc. Introduction to common metabolic diseases. Concept of disease prevention, disease control and eradication. Introduction to endo and ecto-parasites, symptoms, diagnosis and treatment of common parasitic diseases. Common parasitic drugs available in the market, dosage and withdrawal period and deworming schedule for bovines, equines, dogs and cats.

Unit-2:- Common clinical parameters of normal animal health for different species: Normal temperature, heart rate, respiration, rumen motility etc.

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Milk let down – Milk and its composition, colostrum and its benefits for calf, different Milking techniques and clean milk production, maintenance of Udder health, Different qualitative Milk tests, Concept of milk cooperative, Self Help Group (SHG), Farmers Producer Organization and Milk Federation. Different milk products.

Unit-3: Applied Computer Science: Parts of a computer, Different types of computer, basic computer applications like MS word and MS Excel. Internet surfing, Introduction to Information network on Animal Productivity and Health (INAPH). Record keeping at Veterinary Hospitals.

Unit -4:- Introduction to Pharmacology:- Pharmacology –Basic Terms and Concepts, Different Routes of Drug administration- their merits and demerits, Basic concepts of Analgesics including NSAIDS, Glucocorticoids and Local anaesthetics. Antihistaminic and their indications. Reporting of critical animal diseases and emergencies to a Veterinary Doctor. Different animal poisonings and first aid emergency treatment. Drug dispensing at a Veterinary Hospital.

Unit - 5:- Restraining of different animal species: Different restraining methods for retraining bovines, equines, dogs and cats.

Unit - 6:- Vaccines and Vaccination schedule:- What is vaccination, basic concept of active immunity and passive immunity. Commonly used vaccines against different animal diseases, vaccination schedules for bovines, poultry, dogs and cats.

(iii) Third trimester

Name of the Subject: Clinical Veterinary Sciences:

Unit 1:- Bovine reproduction and reproductive disorders:- Basic concept of sexual maturity, Oestrous cycle in dairy cows, buffaloes and equines; Gestation period in different domestic animals; oestrus/heat detection, pregnancy diagnosis in cattle and buffalo; Reproductive disorders in farm animals; Retention of foetal membranes; Prolapse; pyometra and other reproductive diseases, handling of Dystocia's. Basic concept of STD's and their prevention.

Semen collection, processing and storage; advantages of Artificial insemination over natural service, Standard Artificial insemination technique and its merits; cryopreservation of frozen semen and handling LN2 containers. Handling of AI bulls in a semen station as per the Minimum Standard protocol for Semen Production, managerial factors affecting semen concentration and quality. Testing protocols at semen station. Basic knowledge of reproductive hormones.

Unit 2 :- Metabolic diseases and their management :- Signs of health and disease in livestock; Basic concept of Simple Indigestion, acid

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/alkaline indigestion. Management of Bloat (Tympy), imaction and Ketosis. Parturient Paresis (Milk Fever) in cattle, magnesium deficiency and Haemoglobinuria in Cattle and buffalo. Common metabolic poultry diseases and their management.

Unit 3 :- Basic Preventive Veterinary Medicine Aetiology, Transmission, Clinical findings, diagnosis, prevention and control of Hemorrhagic Septicaemia, Anthrax, Black Quarter, Pneumonia, Brucellosis, Listeriosis, Actinobacillosis, Foot and Mouth disease, Rabies, Johne's disease, Strangles, Glanders, Abortions, Enterotoxaemia, Bovine Malignant Catarrh, Tetanus, Actinomycosis, Tuberculosis, calf scours, Mastitis. Common zoonotic diseases, their prevention and basic precautions to be taken.

Basic concept of poultry diseases like RKD, IBD, CRD, Fowl/Duck cholera, Colibacillosis, Coccidiosis, Avian Influenza and Mycotic infections like thrush and aspergillosis. Basic concept of guidelines issued for prevention and control of Avian Influenza.

Unit 4:- First aid treatment of wounds, injuries and accidental cases. Name and use of different surgical equipments, sterilization of surgical equipments, preparation of an animal for minor and major surgical procedures. How to assist a surgical procedure, use of antiseptics and fly repellents.

Unit 5: - Equine Management: Basic equine management and feeding, common diseases /disorders of equines and their treatment.

Unit 6: Handling of veterolegal cases, basic understanding of laws and regulations viz Jammu & Kashmir Bovine Breeding Act. 2018 and rules 2019, Jammu and Kashmir Livestock Breeding Policy, Prevention of cruelty to animals Act. 1960, The prevention and Control of Infectious and Contagious Diseases Act, 2009.

(iv) **Fourth Trimester:-**

Practical training and Field Exposure:

Topic 1:- Basic Clinical Pathology and Laboratory Techniques (at IAH&BP, Srinagar/Jammu).

Introduction to various activities of district veterinary clinical laboratories. Handling of laboratory equipment, glassware and chemicals; Cleaning and sterilization. Blood collection techniques; Use of anticoagulants; Serum and plasma separation. Milk analysis (Ph, strip cup test, CMT, Whiteside and other tests), slide preparation, Gram staining, bacterial culture and antibiotic sensitivity test.

Topic 2:- Semen Collection, Storage, Analysis and Utilization (at Frozen semen project, Ranbirbagh / Hakal); Bull farm management, Breeding

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Bull Management, record keeping as per MSP and ISO/HACCP requirements, preparation of a bull for semen collection, semen collection procedure and handling of AV, sterilization protocol of semen station, introduction to semen processing, cryopreservation, storage and dispatch, record keeping in a semen station, Assisting in a QC lab of semen station.

Training at Livestock Development Board Jammu/Kashmir: standard procedure for ear tagging of animals, Use of INAPH App/ Web Portal (Animal registration, Breeding Module, Disease reporting Module). Data uploading of NADCP/NAIP or any other scheme on INAPH app.

Topic 3:- Poultry management and practices (at Poultry Project, Hariparath Srinagar/ Belecharana Jammu).

Introduction to the types of farms, Breeds, strains, Routine farm practices ,rearing of day old chicks and adult stock, feeding and watering of birds, litter management, egg collection, vaccination and deworming procedures, management of Parent/breeding stock, Introduction to various Hatchery operations.

Topic 4:- Field Training Programme (45 days duration): It includes proper handling of animals and their restrain and casting methods. Preparation of animals for surgical operation; Care and use of surgical equipments; sutures and suture material ,Assisting veterinary surgeon in pre and post operative care; Aseptic preparation of operation site., Post operative management of surgical patients. Clinical use of antiseptics, fly repellents, anti-maggot etc.; First aid in sick animals including fracture cases. Wound drainage; Wound dressings and wound protection.

Animal identification by branding, tattooing, ear-tagging and ear- notching etc. Practical procedure for INAPH tagging. Advantages of using about 12 digit INAPH tag. Recording of Normal temperature, pulse and respiration of animals, Different routes of drug administration.

Care and management of cow- during and after parturition, prevention from milk fever, shedding of placenta and post-parturient care. Care and management of calf before and after birth, their identification, castration, dehorning and prevention from disease.

Hygiene care and sanitation of animal houses. Handling and dealing with sick animals. Medication and Vaccination of animals in a mission mode.

Detection of cow in oestrus, early and late heat detection. Semen handling, loading of AI gun, artificial insemination and Pregnancy diagnosis. Record keeping- Maintenance of AI and Birth records.

Vaccination and dosing procedures, maintenance of records thereof.

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Animal welfare camps; Dealing with owner of sick animal. Routine management practices for various categories of livestock (calves, heifers, pregnant and lactating animals etc.) and sick animals.

Maintenance of case records; Preparation of bills and maintenance of consumable and non-consumable stock of veterinary centre/hospital. Management of Prolapse and Dystokia cases.

Topic 5: At Paravet Training Institute Jammu/Srinagar. Operating a computer. Knowledge of different parts of a computer. Creation of word documents/ excel sheets on a computer, Internet surfing and operating different apps pertaining to Animal Husbandry Department on a computer.


(Romesh Kumar Giri)

22.11.2021

Under Secretary to the Government
Animal /Sheep Husbandry & Fisheries Department

