

MODEL CURRICULUM OF ANIMAL HEALTH WORKER (AHWR)
Core Qualification File Syllabus

DETAIL COURSE CURRICULUM:

Course No.	Course Title	Learning Hours
ANHW 01	Introduction	03T+00P
ANHW 02	Controlling/restraining of animals	04T+07P
ANHW 03	Methods of drug administration	04T+07P
ANHW 04	Preliminary diagnosis of diseases	11T+24P
ANHW 05	Study of common bacterial, viral, fungal and parasitic diseases of livestock and poultry	16T+20P
ANHW 06	Common diseases of animals and first aid treatment	09T+10P
ANHW 07	Common measures for prevention of animal diseases	07T+06P
ANHW 08	Veterinary pharmacy	10T+20P
ANHW 09	Common medicines and vaccines in Veterinary practice	08T+02P
Total Credit Hrs: 168 Hrs(1 Credit=1hr Theory or 2 hr Practical session)		72T+96P

DETAIL COURSE-WISE THEORY AND PRACTICAL SYLLABUS:

Sl. No.	Course Title	Learn Hours
ANHW 01	Introduction -Capable to define health and disease and enlist classification of animal diseases	03T
Theory	Definition of health and disease. Classification of animal diseases - according to cause, body systems affected, origin of disease, intensity of disease and spread of the disease.	03T
ANHW 02	Controlling/restraining of animals -Competent to explain the use of different devices and medicines to control animals for clinical examination	04T+07P
Theory	Use of crate or trevis, lifting of foreleg, use of anti-cow kicker, casting and use of medicines for controlling animals.	04T
Practical	Practical/model demonstration on use of crate or trevis, lifting of foreleg, use of anti-cow kicker, casting and use of medicines for controlling animals during clinical examination.	07P
ANHW 03	Methods of drug administration	04T+07P

	-Effectively illustrate different methods of drug administration like surface medication, medication through internal routes and drug administration through parenteral routes or injections	
Theory	Surface medication-ointment, spray, dipping, hot fomentation: internal routes-oral route, rectal route, vaginal route, inhalation; parenteral route or injection-intramuscular, intravenous, subcutaneous and intra mammary infusion.	04T
Practical	Practical demonstration on different types of surface medication, medication through internal routes and parenteral routes.	07P
ANHW 04	Preliminary diagnosis of diseases -Skilled to take history, notice clinical symptoms, record body temperature, respiration and pulse rate, observe visible mucus membrane and perform special laboratory examinations of blood, faeces and urine and conduct postmortem examination	11T+24P
Theory	History taking, general observation and test-determination of body temperature, respiration rate and pulse rate, observation of mucus membrane of eyes; observation of various organs in diseased animals; diagnosis of diseases on the basis of clinical symptoms, Special laboratory examinations- examination of blood and faeces and urine analysis. Postmortem examination; Collection, packaging, labeling and dispatch of specimens to the laboratory.	11T
Practical	Practical determination of body temperature, respiration rate and pulse rate, observation of mucus membrane of eyes; observation of various organs in diseased animals; diagnosis of diseases on the basis of clinical symptoms, Special laboratory examinations- examination of blood and faeces and urine analysis. Practical demonstration on postmortem examination followed by collection, packaging, labeling and dispatch of specimens to the laboratory.	24P

ANHW 05	Study of common bacterial, viral, fungal and parasitic diseases of livestock and poultry -Capable to recognize various infectious diseases <i>i.e.</i> bacterial, viral, fungal and parasitic particularly on the basis of clinical symptoms of livestock and poultry	16T+20P
Theory	<p>Bacterial diseases: General idea about bacteria; important bacterial diseases and their treatment and control-Anthrax, Haemorrhagic Septicaemia (HS), Black Quarter (BQ), Brucellosis, Johne's disease, Enterotoxaemia, Pneumonia, Mastitis, Colibacillosis, Avian Mycoplasmosis/Chronic Respiratory Disease (CRD).</p> <p>Viral diseases: General idea about virus; important viral diseases and their treatment and control-Foot and Mouth Disease (FMD), Peste des Petits Ruminants (PPR), Orf, Goat pox, Hog cholera, Rabies, Ranikhet disease/Newcastle disease, Gumboro disease/Infectious Bursal Disease (IBD), Fowl pox.</p> <p>Fungal diseases: General idea about fungus; important fungal diseases and their treatment and control-Ringworm, Aspergillosis, Aflatoxicosis.</p> <p>Parasitic diseases: General idea about parasites. Diseases caused by internal parasites or worm-round worms, tape worms and flukes; general symptoms and treatment and control of worm infestation; precautions for using anti-worm drugs. Diseases caused by ectoparasites-fly, lice, ticks, mites; use of ectoparasiticide drugs. Protozoan diseases-Babesiosis, Theileriosis, Trypanosomosis, Coccidiosis.</p>	16T
Practical	Practical demonstration on diseases in different types of domestic animals and poultry. Preparation of chart for disease wise specimen collection in livestock and poultry. Preparation of chart of salient feature of animal diseases according to clinical symptoms and postmortem changes. Collection and preservation of morbid organs having gross changes from different domestic animals and poultry.	20P

ANHW 06	Common diseases of animals and first aid treatment - Competent to explain non infectious diseases/disorders of livestock and poultry	09T+10P
Theory	Fever, diarrhea, constipation, colic, tympany/bloat, metritis, retention of placenta, prolapse of uterus and vagina, anoestrus, repeat breeding, milk fever, burns, wounds, broken horn, poisoning, snake bite, allergy, anorexia, anaemia, arthritis, sprain, cracked teats, yoke gall and epistaxis.	09T
Practical	Practical demonstration on common diseases of animals and their preliminary treatment	10P
ANHW 07	Common measures for prevention of animal diseases -Efficient to illustrate proper care and management, regular deworming and prevention of infectious diseases	07T+06P
Theory	Proper care and management, regular deworming, control of ectoparasites, prevention of infectious diseases. Vaccines and vaccination-Vaccine schedule of cattle, buffalo, goat, sheep, pig and poultry.	07T
Practical	Practical demonstration on control of ectoparasites, prevention of infectious diseases and vaccines and vaccination of different domestic animals like cattle, buffalo, goat, sheep, pig and poultry.	06P
ANHW 08	Veterinary pharmacy -Competent to explain abbreviations commonly used in prescription, relationship between various weights and measures, various doses form and formula of some drugs and their uses	10T+20P
Theory	General idea about prescription, abbreviations commonly used in prescription, Relationship between various weights and measures. Various doses form. Formula of some drugs and their uses-Tincture iodine, Lugol's iodine, Skin bath (1-2% Gention	10T

	violet), Common antiseptics (Mercurochrome, Potassium permanganate, Hydrogen peroxide, Boric acid, Cetavlon), Mouth wash (1% alum, 1:2000 Potassium permanganate, 2-3% Borax), Disinfectants (Phenol, Formalin, Bleaching powder), Boro-Zinc lotion, Appetizer, Antibloat, Diuretic, Laxative, Astringent and Carminative.	
Practical	Practical demonstration on formula of some drugs and their uses-Tincture iodine, Lugol's iodine, Skin bath (1-2% Gention violet), Common antiseptics (Mercurochrome, Potassium permanganate, Hydrogen peroxide, Boric acid, Cetavlon), Mouth wash (1% alum, 1:2000 Potassium permanganate, 2-3% Borax), Disinfectants (Phenol, Formalin, Bleaching powder), Boro-Zinc lotion, Appetizer, Antibloat, Diuretic, Laxative, Astringent and Carminative.	20P
ANHW 09	Common medicines and vaccines in Veterinary practice -Capable to explain about the common allopathic veterinary medicines with generic and trade names, medicines used in eye/ear, skin diseases and Ayurvedic/Herbal Veterinary medicines and commercial vaccines available against infectious diastases, their uses and doses	08T+02P
Theory	Common allopathic veterinary medicines-antibiotic, sulphonamide, deworming agents, vitamin supplements, mineral supplements, antihistaminics, steroid, rumenotoric, electrolytes, antipyretics, analgesic, anti-inflammatory and ectoparasitocides. Few examples of generic names and trade names of such medicines, their uses and doses. Medicines used in eye/ear. Medicines used in skin disease. Ayurvedic/Herbal Veterinary medicines-digestive and appetizer, liver tonic, antidiarrhoeal, uterine tonic, medicines used in cough and cold, retention of placenta, cystitis, skin disease, ectoparasite infestation and medicines used for increasing milk production. Vaccines-commercial vaccines available against infectious diastases, their uses and doses- FMD, HS, BQ, Goat pox, PPR, Enterotoxaemia, Hog cholera, Rabies, Ranikhet disease, Gumboro disease, Fowl pox.	08T

Practical	Practical demonstration on commercial vaccines available against infectious diseases, their uses and doses like FMD, HS, BQ, Goat pox, PPR, Enterotoxaemia, Hog cholera, Rabies, Ranikhet disease, Gumboro disease, Fowl pox.	02P
Total Credit Hrs: 168 hrs (1 Credit=1 hr Theory or 2 hr Practical session)		72T+96P

OUTCOMES

OUTCOMES TO BE ASSESSED	ASSESSMENT CRITERIA FOR THE OUTCOME
1. Capable to define health and disease and enlist classification of animal diseases	<p>(1.1) Assessor will judge the trainee on his\her ability to know about the health and disease.</p> <p>(1.2) Assessor will ask the trainee to elaborate the symptoms and signs of ill health of animals</p> <p>(1.3) Trainee will be asked to enlist the classification of animal diseases according to cause, body systems affected, origin, intensity and spread of the disease.</p>
2. Competent to explain the use of different devices and medicines to control animals for clinical examination	<p>(2.1) Trainee will be asked to explain the different methods of controlling/restraining animals.</p> <p>(2.2.) Trainee should be able to explain how to approach different types of animals during clinical examination</p> <p>(2.3) Trainee should be able to examine animals by giving minimum stress</p> <p>(2.4) Trainee should be able to follow the prescribed procedures related to each equipment and tools.</p> <p>(2.5) Trainee should be able to explain the technique to protect yourself properly during restraining of animals for clinical practices</p> <p>(2.6) Trainee will be asked to identify different devices like crate or trevis, use of anti-cow kicker, lifting of foreleg for controlling animals.</p> <p>(2.7) Trainee will be asked to demonstrate the use of different devices like crate or trevis, use of anti-cow kicker, lifting of foreleg and use of medicines for controlling animals.</p>

<p>3. Effectively illustrate different methods of drug administration like surface medication, medication through internal routes and drug administration through parenteral routes or injections</p>	<p>(3.1) Trainee should be able to explain the varieties way of surface medication in animals like ointment, spray, dipping, hot fomentation <i>etc.</i></p> <p>(3.2) Trainee should be able to demonstrate the varieties way of surface medication in animals like ointment, spray, dipping, hot fomentation <i>etc.</i></p> <p>(3.3) Assessor will ask the trainee to demonstrate the internal routes of medication like oral, rectal, vaginal and inhalation n animals.</p> <p>(3.4) Assessor will ask the trainee to explain various parenteral routes of medication like intramuscular, intravenous, subcutaneous and intra mammary infusion.</p>
<p>4. Skilled to take history, notice clinical symptoms, body temperature, respiration and pulse rate, observe visible mucus membrane and perform special laboratory examinations of blood, faeces and urine and conduct postmortem examination</p>	<p>(4.1) Assessor will ask the trainee to explain the history taking and general observation for disease diagnosis</p> <p>(4.2) Assessor will ask the trainee to demonstrate the determination of body temperature, respiration and pulse rates and observation of mucus membrane of eyes.</p> <p>(4.3) Assessor will ask the trainee to explain the diagnosis of diseases on the basis of clinical symptoms.</p> <p>(4.4) Assessor will ask the trainee to explain the special laboratory examination like examination of blood, urine and faeces analysis.</p> <p>(4.5) Assessor will ask the trainee to explain the postmortem examination and observation of various organs for diagnosis of diseases</p> <p>(4.6) Assessor will ask the trainee to demonstrate the postmortem examination and observation of various organs for diagnosis of diseases.</p> <p>(4.7) Assessor will ask the trainee to explain the procedure of collection, packaging, labeling and dispatch of specimens to the laboratory.</p>
<p>5. Capable to recognize various infectious diseases i.e. bacterial, viral, fungal and parasitic particularly on</p>	<p>(5.1) Assessor will ask the trainee to explain about bacteria, important bacterial diseases and their treatment and control</p> <p>(5.2) Assessor will ask the trainee to explain about virus, important viral diseases . and their treatment and control</p> <p>(5.3) Assessor will ask the trainee to explain about fungus, important</p>

the basis of clinical symptoms of livestock and poultry	<p>fungal diseases. and their treatment and control.</p> <p>(5.4) Assessor will ask the trainee to explain about parasites, important parasitic diseases and their treatment and control.</p> <p>(5.5) Assessor will ask the trainee to explain about Collection and preservation of morbid organs having gross changes from different domestic animals and poultry.</p> <p>(5.6) Assessor will ask the trainee to prepare chart for disease wise specimen collection in livestock and poultry, salient feature of animal diseases according to clinical symptoms and postmortem changes</p> <p>(5.7) Assessor will ask the trainee to identify the different types of diseases from clinical symptoms.</p>
6. Competent to explain non infectious diseases / disorders of livestock and poultry	<p>(6.1) Assessor will ask the trainee to explain the common diseases of animals like fever, diarrhea, constipation, colic, tympany/bloat, metritis, retention of placenta, prolapse of uterus and vagina, anoestrus, repeat breeding, milk fever, burns, wounds, broken horn, poisoning, snake bite, allergy, anorexia, anaemia, arthritis, sprain, cracked teats, yoke gall and epistaxis.</p> <p>(6.2) Assessor will ask the trainee to explain the first aid treatment of common diseases of animals.</p> <p>(6.3) Assessor will ask the trainee to demonstrate the first aid treatment of common diseases of animals.</p>
7. Efficient to illustrate proper care and management, regular deworming and prevention of infectious diseases	<p>(7.1) Assessor will ask the trainee to explain the ways of proper care and management, regular deworming, control of ectoparasites and prevention of infectious diseases</p> <p>(7.2) Assessor will ask the trainee to list the vaccines and vaccination schedule for cattle, buffalo, sheep, goat, pig and poultry.</p> <p>(7.3) Assessor will ask the trainee to demonstrate the process of vaccination on cattle, buffalo, sheep, goat, pig and poultry etc.</p>
8. Competent to explain abbreviations commonly used in prescription, relationship between various weights and	<p>(8.1) Assessor will ask the trainee to explain about prescription and abbreviations commonly used in prescription.</p> <p>(8.2) Assessor will ask the trainee to explain the relationship between various weights and measures and various doses form of medicines.</p> <p>(8.3) Assessor will ask the trainee to elaborate the formula of some drugs and their uses like Tincture iodine, Lugol's iodine, Skin bath (1-2% Gention violet), Common antiseptics (Mercurochrome, Potassium</p>

measures, various doses form and formula of some drugs and their uses	permanganate, Hydrogen peroxide, Boric acid, Cetavlon), Mouth wash (1% alum, 1:2000 Potassium permanganate, 2-3% Borax), Disinfectants (Phenol, Formalin, Bleaching powder), Boro-Zinc lotion, Appetizer, Antibloat, Diuretic, Laxative, Astringent and Carminative.
9. Capable to explain about the common allopathic veterinary medicines with generic and trade names, medicines used in eye/ear, skin diseases and Ayurvedic/Herbal Veterinary medicines and commercial vaccines available against infectious diastases, their uses and doses	<p>(9.1) Assessor will ask the trainee to explain the common allopathic veterinary medicines- antibiotic, sulphonamide, deworming agents, vitamin supplements, mineral supplements, antihistaminics, steroid, rumenotoric, electrolytes, antipyretics, analgesic, anti-inflammatory and ectoparasiticides.</p> <p>(9.2) Assessor will ask the trainee to state few examples of generic names and trade names of such medicines, their uses and doses.</p> <p>(9.3) Assessor will ask the trainee to state the medicines used in eye/ear.</p> <p>(9.4) Assessor will ask the trainee to state the medicines used in skin disease.</p> <p>(9.5) Assessor will ask the trainee to explain the uses of Ayurvedic/Herbal Veterinary medicines like digestive and appetizer, liver tonic, antidiarrhoeal, uterine tonic, medicines used in cough and cold, retention of placenta, cystitis, skin disease, ectoparasite infestation and medicines used for increasing milk production.</p> <p>(9.6) Assessor will ask the trainee to explain the commercial vaccines available against infectious diastases, their uses and doses- FMD, HS, BQ, Goat pox, PPR, Enterotoxaemia, Hog cholera, Rabies, Ranikhet Disease, Gumboro disease, Fowl pox.</p> <p>(9.7) Assessor will ask the trainee to identify the commercial vaccines available against infectious diastases, - FMD, HS, BQ, Goat pox, PPR, Enterotoxaemia, Hog cholera, Rabies, Ranikhet Disease, Gumboro disease, Fowl pox.</p>