

D-GT-M-WTB

**ANIMAL HUSBANDRY AND  
VETERINARY SCIENCE**

**Paper - II**

*Time Allowed : Three Hours*

*Maximum Marks : 200*

**INSTRUCTIONS**

*Candidates should attempt questions 1 and 5 which are compulsory, and any THREE of the remaining questions, selecting at least ONE question from each Section.*

*All questions carry equal marks.*

*The number of marks carried by each part of a question is indicated against each.*

*Answers must be written in ENGLISH only.*

*Neat sketches are to be drawn, wherever necessary.*

**IMPORTANT NOTE :**

*All parts/sub-parts of a question must be answered contiguously. That is, where a question is being attempted on the answer-book, all its constituent parts/sub-parts must be attempted before moving on to the next question.*

*Pages left blank in the answer-book(s), if any, must be clearly struck out. Answers that follow pages left blank may not be given credit.*

## SECTION A

1. Write short notes on the following, keeping your answers brief and to the point : 8×5=40
- (a) Approved therapeutic measures in carbamate toxicosis.
  - (b) Major social values in epidemiological investigations in ecological hazards.
  - (c) Biochemical status of micro-/macro- nutrients in parturient paresis, milk fever and mastitis.
  - (d) Differentiation among teratogenic and mutagenic alterations at molecular level.
  - (e) Factors altering drug responses in animals.
2. (a) Differentiate between hormones, transmitters and autacoids on the basis of source, metabolism and properties, with suitable illustrations. 16
- (b) Discuss biochemical role of non-pituitary gonadotropins and female steroids. 16
- (c) What are the common offences committed against animals under different sections of the IPC ? 8
3. Give classification, mechanism of action and clinical uses of the following : 10×4=40
- (a) Cisplatin
  - (b) Methysergide
  - (c) Fentanyl
  - (d) Ivermectin

4. (a) Give an account of Hong Kong flu in population. Discuss salient important events which influence emergence of influenza. 16
- (b) Elaborate essential prerequisites and requirements of an ideal habitat for pregnant sows. 16
- (c) Bring out the role of ADI and TLV in predictive toxicology. 8

## SECTION B

5. Write short notes on the following, keeping your answers brief and to the point : 8×5=40

- (a) Mandatory requirements for grading of by-products of milk.
- (b) Ethical control and responsibility of PETA in meat industry.
- (c) Methodological approach in rabbit rearing, transport and marketing avenues.
- (d) Causes of drug failure in treatment of various diseases.
- (e) Characteristic lesions, symptoms in M.D.V. and suitable prophylactic measures.

6. (a) Enlist various notifiable diseases under Dourine Act 1910. Describe etiology, pathogenesis, symptoms and lesions of any one of them. Indicate preventive and curative measures of this disease. 16

(b) Describe physico-chemical and serological features of pork and chevon. 16

(c) Bring out the schedule of vaccination of livestock on a dairy farm. 8

7. Discuss etiology, symptoms, lesions and preventive measures of the following diseases : *10×4=40*

- (a) Feline rhinotracheitis
- (b) Feline leukemia
- (c) Infectious peritonitis
- (d) Equine rhinoperitonitis

8. Comment on the following : *10×4=40*

- (a) Hepatorenal biopsy as diagnostic aid.
- (b) Adventitious cardiac sounds and Cheyne – Stokes respiratory events.
- (c) Objectives and principles of euthanasia; duly recommended euthanising agents, their names, doses in different species of animals.
- (d) Role of renin and angiotensins in osmotic and volume regulation.