

2021

ANIMAL HUSBANDRY AND VETERINARY SCIENCE

PAPER-II

Time Allowed — 3 Hours

Full Marks — 200

If the questions attempted are in excess of the prescribed number, only the questions attempted first up to the prescribed number shall be valued and the remaining ones ignored.

Answers may be given either in **English** or in **Bengali** but all answer must be in one and same language.

**Group-A**

Answer Q.1 and any two from the rest.

1. Write in brief any ten of the following: 10×10=100
  - (i) Give the internal morphological features of different chambers of bovine heart with diagram.
  - (ii) Flow-diagrammatically represent the intrinsic mechanism of blood coagulation.
  - (iii) Define bioavailability and discuss the factors affecting bioavailability.
  - (iv) Describe different types of anaemia.
  - (v) Enlist various micotoxins. Discuss the toxicity and pathogenesis of aflatoxicosis in poultry.
  - (vi) What is 'Lumpy Skin Disease'? Give the symptoms, treatment, prevention and control of this disease.
  - (vii) Describe the gross anatomical features of compound stomach in cattle mentioning the major differences with stallion.
  - (viii) Describe various phases of cardiac cycle. How cardiac output is regulated?
  - (ix) What is BSE and what are the symptoms? How you diagnose it? What managerial strategies should adopt to control the disease?
  - (x) Give a brief note on symptoms, diagnosis and treatment protocol of canine distemper.
  - (xi) What steps should be taken for prevention of Rabies in man and the constrains?
  - (xii) What is antibiotic drug resistance? Discuss the steps to be taken to overcome this problem.
2. State the prevalence of Tuberculosis in India. How this disease is transmitted? Mention the symptoms and lesions of this disease. Give the diagnosis, treatment and control of Tuberculosis. 2+2+10+6=20
3.
  - (a) Describe in brief renin-angiotensin system.
  - (b) Describe branching, course and distribution pattern of the brachial plexus in cattle. 10+10=20
4. Briefly enumerate the epidemiology, symptoms, diagnosis, prevention and control of FMD. 20

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**Group-B**

Answer *any two* questions.

5. (a) Describe the different parts of oviduct in hen.  
(b) Write down the difference between cell-mediated and humoral immunity.  
(c) Give a note on the thermoregulatory mechanism in animal body during heat stress.  
10+10+10=30
6. (a) Discuss the economic loss happens due to important diseases in bovines.  
(b) What is PPR? Write about susceptible host, mode of transmission, symptoms, diagnosis, treatment and control of PPR.  
10+20=30
7. Write in brief about: 6×5=30  
(a) Herd Health Management  
(b) Importance of VPH  
(c) Animal Welfare Board  
(d) Conservation of Wildlife  
(e) Trypanosomiasis

**For Classroom / Online guidance / coaching of WBCS Prelims , Main Exam by experts and officers and Interview by IAS / WBCS Gr A Officers/ Toppers, WBCS Prelims and Main Mock Test (Classroom & Online), Optional Subjects, Studymaterials, Correspondence Course etc. Call WBCSMadeEasy™ at Toll Free no 1800 572 9282 or 8274048710 Or 9674493673 or mail us at [mailus@wbcsmadeeasy.in](mailto:mailus@wbcsmadeeasy.in) (Our centers as of now - College Street 8585843673, Garia/ HO 8274048710, Siliguri - 9051265991. Medinipur 8274972589)**