Civil Services (Main) Examination, 2013

ANIMAL HUSBANDRY AND VETERINARY SCIENCE

(Paper II)

Time Allowed : Three Hours **Maximum Marks : 250**

QUESTION PAPER SPECIFIC INSTRUCTIONS

(Please read each of the following instructions carefully before attempting questions)

There are EIGHT questions divided in two Sections.
Candidate has to attempt FIVE questions in all.
Question Nos. 1 and 5 are compulsory and out of the remaining, any THREE are to be attempted choosing at least ONE question from each Section.
The number of marks carried by a question/part is indicated against it.
Wherever any assumptions are made for answering a question, they must be clearly indicated.
Word limit in questions, wherever specified, should be adhered to.
Attempts of questions shall be counted in sequential order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in the Question-cum-Answer Booklet must be clearly struck off.

SECTION 'A'

1. Write about the following: **10×5=50**

(a) Anatomical structure of peripheral nervous system

(b) Risk factors for diseases: BEINGS model

(c) Role of antimuscarinic agents in anaesthesia

(d) Identification of Kairomones, Allomones, Synomones and Pheromones, and their roles

(e) Mechanisms of drug action: specific and non-specific action

2. Answer the following questions:

(a) Write about the etiology, epidemiology, clinical findings, symptoms, lesions, diagnosis and control of swine influenza. **20**

(b) Describe the contribution of Paul Ehrlich postulates in the chemotherapy of infectious diseases. Explain the hypothesis of metal interaction in STD. **20**

(c) Write the role of blood coagulation and blood substitutes in cardiovascular diseases. **10**

3. Answer the following questions:

(a) Discuss the etiology, pathogenesis, symptoms and lesions of secondary immunity deficiency in young animals. **20**

(b) What is fracture? Give the types of fracture (long bones). Discuss the factors influencing fracture union and management and treatment of fracture. **20**

(c) Describe the strategies in vaccine production. **10**

4. Answer the following questions:

(a) Discuss the metabolism and physio-nutritional role of biotin and choline with particular reference to growing animals. **20**

(b) Discuss the etiology, pathogenesis, symptoms and lesions in Failure of Passive Transfer (FPT) in calves. **20**

(c) Draw a housing plan for keeping 10 kids. Discuss all essential requirements including feeding, watering, medication and other managerial requisites. **10**

English version compiled from published transcriptions and cross-checked across sources; not a facsimile of the official UPSC question paper.

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SECTION 'B'

5. Answer the following questions: **10×5=50**

(a) Write the factors for the emergence and re-emergence of zoonotic diseases and describe the major zoonoses in relation to meat production.

(b) Discuss in detail the role of cooperative societies and Operation Flood in the development of dairy industry in India.

(c) Write about the development of bone, fat and muscle tissues starting from embryonic stage.

(d) How is epidemiological survey helpful in disease control programme?

(e) Classify the drugs acting on autonomic nervous system and write their mechanisms of action.

6. Answer the following questions:

(a) Write the importance of antemortem inspection of meat animals. List the most common diseases encountered during AM examination. Also write the procedure to conduct the AM inspection. **20**

(b) Write the etiology, gross lesions and judgment in respect of viral diseases during postmortem inspection of meat animals' carcasses. **20**

(c) Write about the social and economic implications of proper utilization of slaughterhouse byproducts. **10**

7. Answer the following questions:

(a) Describe the quality assurance programme in milk and meat industry. **20**

(b) What are the different drying methods, their advantages and disadvantages for manufacturing of milk powders including their packaging and storage? **20**

(c) Describe in detail the processing technology of cheddar cheese including their packaging and storage. **10**

8. Answer the following questions:

(a) Describe about the pesticides, veterinary drugs and mycotoxin residues in the edible tissues of the animals and their effects on consumer health. Also mention the Maximum Residue Levels (MRLs) of different pesticides as per legal standards. **20**

(b) Describe the legal requirements for setting up a modern abattoir and meat plant. **20**

(c) Describe the processing technology for manufacture of glue and gelatin. **10**

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