

ANIMAL HUSBANDRY AND VETERINARY SCIENCE

Paper II

Time Allowed : Three Hours

Maximum Marks : 200

QUESTION PAPER SPECIFIC INSTRUCTIONS

Please read each of the following instructions carefully before attempting questions.

There are **EIGHT** questions in all, out of which **FIVE** are to be attempted.

Question Nos. **1** and **5** are compulsory. Out of the remaining **SIX** questions, **THREE** are to be attempted selecting at least **ONE** question from each of the two **Sections A** and **B**.

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.

All questions carry equal marks. The number of marks carried by a question/part is indicated against it.

Answers must be written in **ENGLISH** only.

Neat sketches may be drawn, wherever required.

SECTION 'A'

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| 1. | Write short notes on the following : | 8×5=40 |
| 1.(a) | Gametogenesis | 8 |
| 1.(b) | Systemic antifungals | 8 |
| 1.(c) | Types of placenta in domestic animals | 8 |
| 1.(d) | Pancreatic secretions and their functions | 8 |
| 1.(e) | SPCA and its composition and functions | 8 |
| 2.(a) | Discuss etiology, pathogenesis, clinical findings, diagnosis, treatment and prevention of abomasal displacement in bovines. | 15 |
| 2.(b) | Classify anti-neoplastic agents with examples. Discuss in detail about their mechanism of action, therapeutic uses and adverse effects. | 15 |
| 2.(c) | Describe in brief four biochemical renal function tests with their clinical significance. | 10 |
| 3.(a) | Discuss in detail epidemiology, clinical signs and prevention and control measures of FMD in domestic animals. | 15 |
| 3.(b) | Discuss following blood protozoan diseases i.e. theileriosis and babesiosis in crossbred cattle with respect to their transmission, diagnosis, treatment and control. | 15 |
| 3.(c) | Discuss predisposing factors, diagnosis and treatment of Milk Fever in cattle and buffaloes. | 10 |

- 4.(a) Discuss in detail the zoonotic disease brucellosis with respect to its etiology, transmission, diagnosis, prevention and control measures at an organized Animal Farm. 15
- 4.(b) Discuss the occupational zoonotic diseases — chlamydiosis, tuberculosis and avian influenza with respect to mode of transmission and preventive measures for the poultry farmers. 15
- 4.(c) Explain veterolegal cases and their investigation at the post-mortem as a Veterinarian. 10

SECTION 'B'

5. Write short notes on the following : 8×5=40
- 5.(a) Scope of Rabbit meat production and its utilization in India. 8
- 5.(b) Post slaughter physico-chemical changes in meat and factors that influence them. 8
- 5.(c) Describe the manufacture, procedure and differences between evaporated and condensed milk. 8
- 5.(d) Define sanitation. What are different methods of sanitation practiced in meat processing plant? 8
- 5.(e) Differences in livestock practices in rural and urban areas. 8
- 6.(a) Discuss various methods of pasteurization of milk with their advantages and disadvantages. 15
- 6.(b) Describe in detail judging and grading of milk products. 15
- 6.(c) Define and compare physico-chemical properties of drum-dried and sprays dried milks. Explain drum drying of milk with the help of flow diagram. 10
- 7.(a) Discuss in details general principles of ante mortem and post mortem inspection of food animals. 15
- 7.(b) Discuss about utilization of edible and non-edible by-products of slaughter house and their socio-economic implications. 15
- 7.(c) Discuss briefly following meat preservation methods and their shelf life : curing, chilling, canning and irradiation. 10
- 8.(a) Discuss in detail classification and functions of various extension teaching methods. 15
- 8.(b) Discuss in detail key village, ICDP and operation flood schemes for livestock improvement in India. 15
- 8.(c) Discuss problems and constraints in transfer of technology for livestock improvement in India. 10