

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

1. Write short notes on the following : 8×5=40
- (a) Characteristic gross anatomical features of avian digestive system in comparison to mammals
 - (b) Cage layer fatigue
 - (c) Role of chemoreceptors in regulation of respiration in birds
 - (d) Principles and methods of immunization of animals against diseases
 - (e) Physiological functions of plasma proteins in animals
2. (a) (i) Enlist the four basic tissues of the body and describe their characteristic histological features. 6
- (ii) Describe the histological structure of uterus of cow. 9
- (b) Discuss the etiology, diagnosis and treatment of hypomagnesemic tetany in cow. 15
- (c) Discuss the anaesthetic approach, indications and procedure for performing caesarean section in cow. 10
3. (a) Define nerve block and describe the anatomical sites for infraorbital, maxillary, mandibulo-alveolar, mental, cornual and pudendal nerve blocks. 15
- (b) (i) Describe the various methods for the study of heart sounds in animals. 5
- (ii) Explain the physiological role of baroreceptors in maintaining optimum blood pressure in animals. 10
- (c) Discuss the basic requirements for establishment of animal health centres and the role of these centres in the delivery of animal health services. 10
4. (a) Enlist the different factors responsible for water pollution and discuss the effects of water pollution on livestock health and production. 15
- (b) Describe the etiology, clinical symptoms, diagnosis and control of brucellosis in cattle. 15
- (c) Discuss the concept of integrated disease control programme on the basis of epidemiological evaluation of the diseases of animals. 10

SECTION—B

5. Write short notes on the following : 8×5=40
- (a) Role of alpha-lactalbumin in baby foods
 - (b) Rigor mortis
 - (c) Different varieties of Khoa—their composition and utilization
 - (d) Composition and nutritive value of poultry egg
 - (e) Duties and functions of veterinarians in wholesome meat production
6. (a) Discuss the active and intelligent packaging methods for preservation of meat and meat products. 15
- (b) Explain the objectives and components of the Rashtriya Gokul Mission. 10
- (c) Discuss the postmortem judgements in rabbit meat inspection with carcasses affected with injuries, enteritis, mastitis, coccidiosis and salmonellosis. 15
7. (a) Describe the methodology for manufacture, packaging and storage of table butter. 15
- (b) Write down the formulation and flowchart for the preparation of meat sausages. 15
- (c) Describe the objectives and implementation phases of Operation Flood. 10
8. (a) Suggest the strategies for efficient utilization of by-products obtained from slaughter of small ruminants under rural conditions. 15
- (b) Suggest the preslaughter inspection and handling strategies for obtaining good quality poultry meat. 15
- (c) Enlist different types of packaged milk available in market along with their fat content and explain the attributes of standardized milk. 10
