

ANIMAL HUSBANDRY AND VETERINARY SCIENCE

PAPER—II

19

Time Allowed : Three hours

Maximum Marks : 300

The figures in the margin indicate full marks for the questions

Answers must be written in the medium specified in the Admission Certificate issued to you, which must be stated clearly on the cover of the answer-book in the space provided for the purpose. No marks will be given for the answers written in a medium other than that specified in the Admission Certificate.

Candidates should attempt Question Nos. **1** and **5** which are compulsory and any **three** of the remaining questions selecting at least **one** from each Section

SECTION—A

1. Write what you know about any *five* of the following : 12×5=60
 - (a) Effect of environment on animal function and production
 - (b) Housing requirement for broiler and layer chicken
 - (c) Disease investigation techniques and disease-free zone
 - (d) Role of SPCA on the animal welfare
 - (e) Quality and grading of whole milk
 - (f) Factors responsible for spoilage of meat
2. (a) Describe the symptoms and surgical interference in fracture and dislocation in the large animals. 30
 - (b) Write the vaccination schedule practised during the growing stages of poultry and mention some reasons for the failure of vaccination. 20+10=30
3. (a) Write the functional anatomy in relation to egg production of female chicken. 20
 - (b) Describe some general anaesthetics commonly practised in case of cattle, pig and dog with their uses. Explain the practice of preanaesthetic medication. 15+5=20
 - (c) Write various sanitation measures required for clean and safe milk and for milk plant. 20

4. (a) Explain different methods of preservation of meat. Which method out of these can be considered to be the best and why? 20+10=30
- (b) Describe the procedure of slaughter and dressing operation of poultry with their yields. Write BIS grading characteristics of dressed chicken. 20+10=30

SECTION—B

5. Write short notes on the following : 12×5=60
- (a) Thermostabilization and cold storage of eggs for preservation
- (b) Utilization of different slaughterhouse by-products as feed ingredient considering their nutritive values
- (c) Liquefaction and microbial spoilage of egg
- (d) Chemical composition and nutritive value of poultry meat in comparison to other animal meat
- (e) Prospect of organic poultry production in India
6. (a) Discuss the etiology, postmortem finding, diagnosis and prevention of any one of the respiratory diseases in poultry. 30
- (b) Write the care and management of rabbit reared for meat production. Explain the grading of wool. 20+10=30
7. (a) Discuss the etiology, pathogenesis, clinical finding, prevention and treatment of anthrax disease in cattle. 30
- (b) Write the objective and principle of extension programme practised for the livestock development and the role of extension specialist on this. Explain different methods adopted to educate the farmers under the rural condition. 10+10+10=30
8. (a) Write some important emerging zoonotic diseases commonly observed in your place and mention their preventive measures. 20
- (b) Write the importance in practice of biosecurity in the livestock farming. 20
- (c) Describe the existing marketing pattern either of milk or of broiler chicken and egg, and discuss the common problems seen in this. 20

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