

**CC/M/EXAM.
2020**

ANIMAL HUSBANDRY AND VETERINARY SCIENCE

PAPER—II

Time : 3 hours]

[Full Marks : 250

Note : 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.

SECTION—A

1. Answer *any five* of the following questions : 10×5=50

- (a) How will you proceed for staining of tissues for histological studies?
- (b) Write about the organophosphorus compound poisoning, its diagnosis and treatment.
- (c) Briefly describe about epidural anesthesia.
- (d) What are the common methods of packaging of whole milk and milk products?
- (e) Describe 'Humane Slaughter' of meat animals. Explain the different techniques of humane slaughter of meat animals.
- (f) Write about the indirect effect of climate on animal production.
- (g) Write a short note on the diseases associated with milk secretion.

2. Answer the following questions :

- (a) Describe about the tissues with their classification. 20
- (b) Explain the comparative histology of digestive system. 15
- (c) Discuss the comparative features of locomotor apparatus and their application in the biomechanics of mammalian body. 15

3. Answer the following questions :

- (a) Elaborately define and discuss the different factors influencing the action of a drug. 20
- (b) Mention few drugs, its indication and route of administration used as central nervous system stimulant. 15
- (c) Describe the role of hormones in follicular development in bovine ovary. 15

4. Answer the following questions :

- (a) What are the metabolic diseases of dairy cattle affecting the productivity? Describe the post-parturient hypocalcemia and its line of treatment in detail. 20
- (b) Describe the epidemiology, clinical symptoms and preventive measures of newcastle disease in poultry. 15
- (c) Write a comprehensive note on African swine fever. 15

SECTION—B

5. Answer *any five* of the following questions :

10×5=50

- (a) Briefly describe the mechanism of blood coagulation.
- (b) Write a short note on automatic drug receptors.
- (c) Describe briefly the common sources of water pollution.
- (d) Describe the objectives, rules and procedure for conducting vetero-legal post-mortem examination.
- (e) Write a short note on rumenotomy.
- (f) Describe the structure and composition of chicken egg with the help of a diagram.
- (g) Explain the High-Temperature-Short-Time (HTST) pasteurization process.

6. Answer the following questions :

- (a) What do you understand by herd health management? Mention the vaccination schedule of dairy cattle and poultry. 20
- (b) Define zoonosis and discuss about the classification of zoonosis. 15
- (c) Define epidemiology. Describe briefly the epidemiological principles. 15

7. Answer the following questions :

- (a) Discuss about the quality control and grading of raw milk. 20
- (b) Describe the common methods of packaging of butter. 15
- (c) What is fermented milk? Mention the method of preparation of 'Dahi' with the help of a flowchart. 15

8. Answer the following questions :

- (a) What are the important factors that affect the shelf-life of meat? Explain various methods employed to prolong the shelf-life of meat. 20
- (b) Discuss briefly the importance of ante-mortem care and management of food animals and their effect on meat quality. 15
- (c) Mention various by-products of the meat industry and their economic importance. 15

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