

Code - 02

ANIMAL HUSBANDRY & VETERINARY SCIENCE

Time : 3 Hours

Maximum Marks : 150

Note : Attempt FIVE questions. All questions carry equal marks. Question No. 1 is compulsory. Answer two questions from Part - I and two questions from Part - II. The parts of same question must be answered together and must not be interposed between answers to other questions.

1. Write short notes on any six of the following : (6 x 5 = 30)

- I. Swine flu
- II. Coccidiosis
- III. Zoonotic diseases
- IV. Progeny testing
- V. Oestrus detection
- VI. Cell division
- VII. Dissociative anaesthetics
- VIII. Water soluble vitamins
- IX. Pasteurization

PART - I

2.

- a) Classify nutrients? Describe their functions in animal body.
- b) Differentiate leguminous and non leguminous forages. What is the importance of green fodder in cattle feeding?
- c) Describe nutrient requirements of broilers in different phases of growth. (3x10=30)

3.

- a) What is mixed farming? How does it differentiate from dairying as specialized farming? Which system of farming is best and why?

- b) Discuss the factors affecting the efficiency of utilization of nutrients in lactating cattle.
- c) Efficient milk removal requires the release of oxytocin. Explain.
(15+8+7 = 30)

4.

- a) Explain the Mendel's law of inheritance? How these help in breeding and improvement of farm animals?
- b) Describe briefly the factors affecting gene and genotypic in a population. Which of these factors is most potent in bringing changes in the genetic structure of the population?
- c) Describe the concept of heritability. How its knowledge is useful to animal breeder? Which method of heritability is most commonly used in dairy cattle?
(3 x 10 =30)

5.

- a) What are the general principles of prevention and control of infectious diseases?
- b) Prevention is better than cure. Explain?
- c) Describe etiology, symptoms and prevention of 'Foot and Mouth' disease in dairy animals.
(15+5+10 = 30)

6.

- a) Pituitary is the master of endocrine orchestra. Discuss
- b) What do you understand by ureotelic and uricotelic animals? Discuss in brief the formation of urea in dairy animals.
- c) What precautions will you adopt for a hygenic cow shed?
(3 x 10 = 30)

7.

- a) Define milk? What is the necessity of cooling milk before storage?
- b) Classify indigenous milk products. What are the various adulterants in ghee?
- c) Describe the role of Ante mortem and Post mortem examination in producing quality meat products.
(3 x 10 = 30)