

This question paper contains 4 printed pages ]

Code No. : 02(II) Roll No. ....

**0(CCEM)9**

**ANIMAL HUSBANDRY & VETERINARY  
SCIENCES**

Paper : II

Time Allowed : 3 hours ]

[ Maximum Marks : 300

- Note : (i) Answers must be written in English.
- (ii) Number of marks carried by each question are indicated at the end of the question.
- (iii) Part/Parts of the same question must be answered together and should not be interposed between answers to other questions.
- (iv) The answer to each question or part thereof should begin on a fresh page.
- (v) Your answers should be precise and coherent.
- (vi) Candidates should attempt Question Nos. 1 and 2 which are compulsory and any four the remaining questions.

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1. Write short notes on any *five* of the following : 50

- (a) Selection indices.
- (b) Mad cow disease
- (c) Hardy Weinberg law
- (d) Heritability
- (e) Allele mining
- (f) Inflammation
- (g) Bird flu
- (h) Zoonosis

2. Differentiate between any *five* of the following : 50

- (a) Processed cheese and mozrella cheese
- (b) Inbreeding and line breeding
- (c) ISI and Agmark specification
- (d) Sulfonamides and antibiotics
- (e) Saturated and unsaturated fatty acids
- (f) Nicking and prepotency
- (g) Microsatellite and minisatellite
- (h) Feed additives and drugs

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3. What is inbreeding ? Discuss in detail the genetic and phenotypic effects of inbreeding. What are the genetic bases for effects of inbreeding ? 50
4. What do you understand by genetic improvement of dairy cattle ? Discuss the methods for genetic improvement of dairy cattle along with details of economic traits of dairy cattle ? 50
5. What is epistasis ? Discuss different types of epistasis along with suitable examples. 50
6. Describe in detail the various hormones secreted from endocrine glands along with functions and mode of action as well as their changes during major disease condition in animals ? 50
7. Define cheese ? Enlist the system of classification of cheese ? What is the difference between processed cheese and mozarella cheese ? Discuss in detail the manufacture of cheddar cheese. 50
8. What is Zoonotic disease ? Discuss the various commonly occurring zoonotic diseases and their etiology ? 50

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9. List 5 major livestock and poultry diseases ? Discuss various methods to prevent the occurrence of these diseases ? 50
10. What do you understand by the term Ethno-veterinary medicine ? Give few examples of herbal medicines in the treatment of livestock diseases and their mode of action ? 50

(4)

500