

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: IV (New)	Term	: Second	Academic Year	: 2022-23
Course No.	: AHDS 242	Title	: Livestock Breeding and Nutrition.		
Credits	: 2 (1+1)				
Day & Date	: Friday, 07.07.2023	Time	: 09:00 to 11:00 hrs.	Total Marks	: 40

- Note :
1. Solve ANY EIGHT questions from SECTION 'A'.
 2. All questions from SECTION 'B' are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagram wherever necessary.

SECTION 'A'

- Q.1 Enlist the methods of selection. Explain independent culling method.
- Q.2 Define feeding standards. State the advantages of feeding standards.
- Q.3 Differentiate between qualitative and quantitative traits of farm animals.
- Q.4 Give the classification of feed stuffs with suitable example.
- Q.5 Enlist the systems of breeding. Write advantages and disadvantages of Crossbreeding.
- Q.6 Define nutrient. Enlist different types of nutrient and explain functions of water in animal body.
- Q.7 Describe the digestion and absorption of proteins in ruminants.
- Q.8 Draw a well labeled diagram of digestive system of cow and explain rumen.
- Q.9 Define mutation. Give its characteristics and classification.
- Q.10 Write short notes on (Any Two):
- a) Scope of Animal Breeding in India
 - b) Hardy-Weinberg Law
 - c) Mendel's Law of Segregation

SECTION 'B'

- Q.11 Fill in the blanks:
- 1) In large population of cattle, the frequency of heterozygotes will not be greater than _____%.
 - 2) Deficiency of vitamin _____ causes night blindness.
 - 3) In meiosis, exchange of genetic material takes place in _____ stage of cell division through chiasma.
 - 4) The allowance of feed given to the animal for a period of 24 hours is called _____.
- Q.12 Define the following terms:
- 1) Half Sib
 - 2) Feed Additives
 - 3) Species
 - 4) Animal Breeding

