

**MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE**  
**SEMESTER END THEORY EXAMINATION**

**B.Sc.(Hons.) Agriculture**

Semester	: IV (New)	Term	: Second	Academic Year	: 2021-22
Course No.	: AHDS 242	Title	: Livestock Breeding and Nutrition		
Credits	: 2 (1+1)				
Day & Date	: Thursday, 15.09.2022	Time	: 14:00 to 16:00 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 What do you mean by gene? Explain the functions of gene.
- Q.2 What is feeding standards? Classify the feeding standards and give its advantages.
- Q.3 Explain in brief digestive system of ruminant with a neat diagram.
- Q.4 Define selection. Describe the methods of selection.
- Q.5 Classify feed stuff and explain in brief the role of feed additives and supplements in animal nutrition.
- Q.6 Explain in brief gene frequency.
- Q.7 Write the concept of preparation of complete feed block.
- Q.8 Differentiate between qualitative and quantitative traits.
- Q.9 Differentiate between plant and animal body.
- Q.10 Define cell division. Explain the phases of mitosis.

**SECTION 'B'**

- Q.11 Define the following terms:

- |                     |                   |
|---------------------|-------------------|
| 1) Nutrition        | 2) Oestrous cycle |
| 3) Animal Husbandry | 4) Heredity       |

- Q.12 Fill in the blanks:

- 1) \_\_\_\_\_ are the chemical substances found in feed material and used for maintenance, production and health.
- 2) An individual carrying identical pair of alleles at a particular gene/locus found on the chromosome is termed as \_\_\_\_\_.
- 3) A male which has only one testicle in the scrotum is called \_\_\_\_\_ individual.
- 4) \_\_\_\_\_ is the record or history of ancestors of an individual.

