MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE

SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

[Fifth Deans' Committee Recommended Syllabus]

Semester	: IV	Term	: Second	Academic Year	: 2024-25		
Course No.	: AHDS 242	Title	: Livestock Breeding and Nutrition				
Credits	: 2(1+1)						
Day & Date	: Wednesday, 16.04.2025	Time	: 9:00 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 What do you mean by Progeny testing? Give advantages and limitations of progeny testing.

Q.2 Describe the digestion and absorption of protein in ruminant.

Q.3 Differentiate between Inbreeding and Outbreeding.

Q.4 When the population is said to be under Hardy-Weinberg equilibrium? What are the necessary conditions for its maintenance?

Q.5 Name the various systems of expressing the energy values of feed. Explain TDN system in brief.

Q.6 Classify roughages with suitable examples and give the importance of green fodder.

Q.7 Comment on 'Qualitative and Quantitative traits'.

Q.8 Enumerate the general functions of minerals in animal body.

Q.9 Explain in brief the Concept of complete feed and benefits of complete feed block technology.

Q.10 Write short notes on (Any Two):

a) Feed supplements b) Mitosis c) Concept of Animal Breeding

SECTION 'B'

Q.11 Define the following terms:

1) Genotypic frequency
2) Nutritive ratio
3) Balanced ration
4) Nutrient

Q.12 Do as directed:

1) Write the three forms of RNA.
2) Mention the normal chromosome number of River buffalo.
3) Improvement of non-descript cattle by outstanding pure breed: (Name the type of Breeding)
4) Write the major storage form of carbohydrates in animals.

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