MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	**: IV (Old)**	**Term**	**: II**	**Academic Year**	**: 2017-18**
Course No.	**: ASDS 242**	**Title**	**: Livestock Breeding and Nutrition**		
Credits	**: 2 (1+1)**				
Day & Date	**: Saturday, 28.04.2018**	**Time**	**: 14.00 to 16.00**	**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 diagrams wherever necessary.

SECTION "A"

Q.1 Classify the feeding stuffs with examples and explain in brief about non conventional feed stuff.

Q.2 Describe the functions of various organs of digestive system of cattle.

Q.3 State concept and brief history of animal breeding.

Q.4 What is feeding standard? Classify the feeding standards and give their advantages.

Q.5 Differentiate between the following.

a) Quantitative and qualitative traits

b) Plant and animal body

Q.6 Explain in brief the methods of selection.

Q.7 Enlist feed nutrients and state functions of minerals in animal body.

Q.8 Write in brief on.

a) Complete feed block b) Gene frequency

Q.9 Describe cell division with respect to mitosis.

Q.10 Describe gene and their functions.

SECTION "B"

Q.11 State True or False.

1) The number of chromosomes in each somatic cell is the same for all species.
2) Fish meal is the best source of protein supplement in poultry feed.
3) ARC feeding standard is based on DM, DCP and TDN requirements.
4) The sum of all organic digestible nutrients is known as digestible crude protein.

Q.12 Fill in the blanks.

1) Numbers of chromosomes in cattle are _____.
2) Mating of a crossbred animal back to one of the pure parent sire is called_____.
3) Gross energy in a feed can be determined by burning it in an instrument called ____.
4) Animal body contains _____ per cent carbohydrates.

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