

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

B.Sc. (Agri.)

Semester : IV (Old)	Term : II	Academic Year : 2018-19
Course No. : ASDS 242	Title : Livestock Breeding and Nutrition	
Credits : 2(1+1)	Time : 09.00 to 11.00	Total Marks : 40
Day & Date : Tuesday, 07.05.2019		

- 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 Enlist various phases followed during cell division under Mitosis and Meiosis. Describe in short various events followed at Mitosis?
- Q.2 What is mean by chromosomal aberration? Explain in short and give the classification of chromosomal aberrations?
- Q.3 What is Hardy-Weinberg law? Enlist four steps of proof of Hardy-Weinberg law with constancy of gene frequency and give the properties of Hardy-Weinberg law.
- Q.4 Enlist the basis and methods of selection and write down advantages and limitations of Pedigree selection?
- Q.5 Define feed stuff. Give the classification of feed-stuffs with suitable examples and write down short note on unconventional feed stuffs?
- Q.6 Enlist various six major feed nutrients and write down functions of carbohydrates in animal body.
- Q.7 What is mean by feeding standards? Enlist advantages of feeding standards.
- Q.8 Describe in short functions of various organs of cattle digestive system.
- Q.9 Write short notes (Any two).
 - a) Spermatogenesis
 - b) Urea Molasses Mineral Blocks (UMMB) Licks
 - c) Advantages of Silage making
- Q.10 Differentiate between (Any two).
 - a) Qualitative and Quantitative trait
 - b) Roughages and Concentrates
 - c) Plant cell and Animal cell

(P.T.O.)

SECTION "B"

Q.11 Define the following term.

- | | |
|------------------|-------------------|
| 1) Half sib | 2) Balance ration |
| 3) Repeatability | 4) Selection |

Q.12 Select proper answer.

- 1) Sudden change in the structure of gene is known as _____.
- | | | |
|--------------|-------------|--------------|
| a) Migration | b) Mutation | c) Selection |
|--------------|-------------|--------------|
- 2) _____ is the byproduct obtained from sugar industry.
- | | | |
|-----------|-------------|-----------|
| a) Silage | b) Molasses | c) Brains |
|-----------|-------------|-----------|
- 3) _____ is known as Father of genetics.
- | | | |
|-----------|-----------|------------|
| a) Mendel | b) Muller | c) Khurana |
|-----------|-----------|------------|
- 4) Milk fever is cause due to deficiency of _____.
- | | | |
|------------|-----------|-----------|
| a) Calcium | b) Copper | c) Cobalt |
|------------|-----------|-----------|

◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆ ◆