

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

**B.Sc. (Agri.)**

<b>Semester</b> : IV (New)	<b>Term</b> : II	<b>Academic Year</b> : 2016-17
<b>Course No.</b> : ASDS 242	<b>Title</b> : Livestock Breeding and Nutrition	
<b>Credits</b> : 2 (1+1)		
<b>Day &amp; Date</b> : Wednesday, 03.05.2017	<b>Time</b> : 14.00 to 16.00	<b>Total Marks</b> : 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 Define Roughages. Write in detail classification of roughages with suitable examples.
- Q.2 Enlist systems of animal breeding and explain crossbreeding.
- Q.3 Define gene. Explain the gene actions useful in animal breeding.
- Q.4 Write short notes (Any Two).
- 1) Performance testing
  - 2) Laws of segregation
  - 3) Gene mutations
- Q.5 Give difference between mitosis and meiosis.
- Q.6 Write functions of water in animal body.
- Q.7 What are feeding standards? Write the advantages of feeding standards.
- Q.8 Describe chemical composition of plant and animal body.
- Q.9 Explain chromosomal aberrations responsible for variation.
- Q.10 Explain digestion of carbohydrates in ruminants.

**SECTION "B"**

- Q.11 Define the following terms.

- |             |          |
|-------------|----------|
| 1) Zygote   | 2) Locus |
| 3) Cytology | 4) ME    |

- Q.12 Fill in the blanks.

- 1) \_\_\_\_\_ is a structural and functional unit of all living organism.
- 2) The somatic chromosome number of cattle is \_\_\_\_\_.
- 3) The triple cross between HF, Jersey and Gir developed at MPKV Rahuri is named as \_\_\_\_\_.
- 4) \_\_\_\_\_ is a power house of cell.

