

# DAIRY SCIENCE

II SEMESTER - w.e.f. 2015-16

## DAIRY HUSBANDRY-II

**3-2-109**

### **THEORY**

**(60 Lectures)**

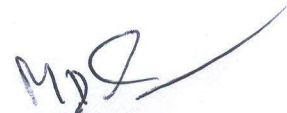
**(4 Credits)**

**Unit 1:** Systems of Housing of Dairy cattle- Loose Housing and Conventional Dairy Barns. Drawing of layouts for dairy cattle dwellings; Criteria for selecting site for establishing Dairy farm buildings; Water requirement of dairy animals. (20 Lectures)

**Unit 2:** Symptoms of ill health of Dairy animals. Diseases of Dairy animals- Bacterial, Viral, Parasitic and Nutritional diseases and their control. (10 Lectures)

**Unit 3:** Management of different classes of Dairy animals- Milk producing animals, Pregnant animals, dry animals, heifers and calves. Management practices for Dairy farm; Identification, Dehorning, Castration, Deworming, Vaccination, Disinfection, and Milking. (15 Lectures)

**Unit 4:** Maintenance of high level of fertility in the herd: Importance, reasons for low fertility, methods of maintaining high level of fertility in the herd. Methods of determining reproductive efficiency: ( i) by no return percentage of cows, (ii) by calving interval period, (iii) by pregnancy days of cows per year. (15 Lectures)



**Practical:****(2 Credits)**

1. Dairy Farm layout
2. Identification of cows,
3. Dehorning of calves
4. Castration of bulls
5. Deworming of dairy cattle
6. Preparation of vaccination schedule of dairy cattle
7. Identification of sick animals
8. Tests for hardness of water.
9. Determining the strength of detergent solution.

**Reference Books**

1. Text book of Animal Husbandry - G C Benarjee
2. Hand book of Animal Husbandry ICAR Edition



SRI VENKATESWARA UNIVERSITY

Three Year Degree Programme

I B.Sc. –DAIRY SCIENCE PAPER -II; SEMESTER –II

**THEORY MODEL PAPER: Paper –II Dairy Husbandry**

Time- 3 Hours

Max. Marks: 75

**SECTION- A (SHORT ANSWERS)**

(Instructions to the paper setter: To keep at least one question from each unit, maximum eight from all)

**Answer any five of the following**

**5x5 = 25 marks**

- 1 What are the main differences between Loose housing system and conventional dairy barn?
- 2 Write the common symptoms of ill health in Dairy cattle.
- 3 How do you manage Pregnant animals in a Dairy farm?
- 4 What is Castration in a Dairy farm?
- 5 Write about the methods of determining reproductive efficiency.
- 6 Write about water requirement in a dairy farm.
- 7 Write about the various methods of milking of cattle.
- 8 How do you maintain high level of fertility in a dairy herd?

**SECTION-B (ESSAY QUESTIONS)**

(Instructions to the paper setter: To keep at least one question from each unit)

**Answer all the following questions**

**5x10=50 marks**

- 9 a) Write briefly about the systems of Housing of Cattle.

Or

- b) What are the criteria for selecting a site for establishing a Dairy farm?

- 10 a) Write about various diseases in Dairy animals. What are the steps to be taken in preventing the diseases?

Or

- b) Write about Foot and Mouth diseases and the steps to take on preventing the disease. Also write about treatment practices.



11 a) How do you manage different classes of Dairy animals?

Or

b) Write about Vaccination schedule followed in a Dairy farm.

12 a) How do you maintain high level of fertility in a Dairy farm?

Or

b) Draw neatly the diagrams for Loose housing system and conventional housing of Dairy cattle.

13 a) What is Mastitis? Write in detail on how you deal with mastitic animal and on how you prevent mastitis in a Dairy herd.

Or

b) Write about various methods of Identification in Dairy cattle.

**INTERNAL EXAMINATION**

**-25 marks**

**20 marks for theory test and 5 marks for Viva Voss**

A handwritten signature in blue ink, appearing to be 'M. J. Voss', is written on the right side of the page.



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Three Year Degree Programme

I B.Sc. –**DAIRY SCIENCE** PAPER II; SEMESTER –II

**PRACTICAL MODEL PAPER: Paper -II Dairy Husbandry**

Time- 3 Hours

Max. Marks: 50

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ANSWER ALL QUESTIONS

3x10= 30 marks

1. Present the vaccination schedule followed in a Dairy farm with the help of a table.
2. Draw neatly on a Dairy farm layout.
3. Identify the disease in the cow presented before you and write about the disease.

Identify the following equipment /item and write briefly about its use

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5x2=10 marks

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4. Burdizzos castrator
5. Potassium permanganate solution
6. Ear notching equipment
7. Branding iron
8. Dehorning equipment

Viva Voss

-5 marks

Record (submission is compulsory)

- 5 marks

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