

AGRICULTURAL STRUCTURES AND ENVIRONMENTAL CONTROL
[BTAP 3105]
ASSIGNMENT-1

Section-A: Short Answer Questions

Answer the Following.

1. Write the difference between shallow and deep bin with diagram.
2. What are the general considerations for sheep housing.
3. Safe storage moisture limit for rice is _____ and groundnut is _____.
4. Floor space requirement for pigs of 21-40 kg weight is _____ per animal and that for a sheep is _____ per animal.
5. Write about the types of losses that occur during storage.
6. What are the advantages of bulk storage over bag storage.
7. Write the steps for planning of farmstead.
8. Define Homeostatis and Barn.
9. Write about head to head and tail to tail system.
10. Write the role of mangers and dimension of mangers in a dairy barn.
11. The floor space requirement for dairy cows is _____ per animal in loose housing & _____ per animal in stanchion housing.

Section-B: Long Answer Questions

12. Write about cover and plinth storage with diagram.
13. Describe briefly about tower silo with diagram.
14. Wheat weighing 900 kg/m^3 and loaded in a circular concrete silo of 3m internal diameter and a clear height of 8m. The angle of internal friction for wheat is 25° and that for wheat and concrete is 24° . Applying Airy theory, calculate the maximum lateral pressure of bin section.
15. Briefly describe the components of dairy barn.
16. Write the advantages and disadvantages of semi intensive system of poultry housing.
17. Classify dairy barns and write the features of stanchion housing dairy barns.

Assignment-2

Section-A: Short Answer Questions

1. Write the factors affecting the planning of farmstead.
2. Define Homeostatis, Acclimatization, barn and shed.
3. Write the salient features of a stanchion barn.
4. The body temperature of chicken is _____ and that of horse is _____.
5. The bird density of free range system is _____ and semi intensive system is _____.
6. The types of arrangement in milking parlour is _____ and _____.

Section-B: Long Answer Questions

7. Write the defects in traditional housing and the requirements of good housing.
8. Classify dairy barns and compare any two.
9. Classify the types of poultry housing and write the advantages and disadvantages of any slatted floor system.

Assignment-III

Section-A: Short Answer Questions

- 1) What are the criteria for site selection of farmstead.
- 2) Define Acclimatization, and shed.
- 3) Write about head to head and tail to tail system.
- 4) Write the role of cutters and dimension of cutters in a dairy barn.
- 5) The floor space requirement for dairy cows is _____ per animal in loose housing & _____ per animal in stanchion housing.

Section-B: Long Answer Questions

- 1) Briefly describe the need of poultry farming.
- 2) Write the advantages and disadvantages of free range system of poultry housing.
- 3) Classify dairy barns and write the features of loose housing dairy barns.