

**PARUL UNIVERSITY**  
**FACULTY OF ENGINEERING & TECHNOLOGY**  
**B.Tech. Summer 2018 - 19 Examination**

**Semester: 6****Subject Code: 03110352****Subject Name: Agricultural Structures and Environmental controls****Date: 14/05/2019****Time: 10:30am to 01:00pm****Total Marks: 60****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

**Q.1 Objective Type Questions - (All are compulsory) (Each of one mark) (15)**

1. Farmstead include\_\_\_\_\_?  
(a) Farming (b) Fencing (c) Livestok (d) All
2. The milk room or milk house is generally placed about \_\_\_\_\_m away from the barn.  
(a) 9 (b) 6 (c) 10 (d) None
3. Which is the following is considering for selection of site for a food processing plant?  
(a) Availability of water (b) Availability of power (c) Availability of labour (d) All
4. Which one is ruminant animal?  
(a) Dog (b) Cow (c) A and B both (d) None
5. THI should be \_\_\_\_\_for normal cows.  
(a) 72-75 (b) < 70 (c) >75 (d) None
6. Full form pf THI is .....
7. Enlist the environmental parameters.
8. Write the instrument used to measure relative humidity and write the unit of relative humidity.
9. What is Farm stead?
10. What is Farm fencing?
11. Thermometer used to measure the light intensity. (True/False)
12. Anemometer is used for measurement of solar radiation. (True/False)
13. State the value of THI for calf.
14. Well is include in farmstead. (True/False)
15. What are the physiological reactions?

**Q.2 Answer the following questions. (Attempt any three) (15)**

- A) Write short note of animal reaction on Temperature.
- B) Enlist types of silo. Explain any two of them.
- C) What are the points for selection of most convenient location of farmstead?
- D) Write down the defects in traditional village houses.

**Q.3 (07)**

- A) Write down the facilities should be in good in farm house.
- B) Explain floating drum (KVIC type) type biogas plant in detail. (08)

**OR**

- B) Explain fixed dome(Janta type) type biogas plant in detail. (08)

**Q.4 (07)**

- A) What are the factors affecting aerobic composting? Explain any four of them.

**OR**

- A) Explain dairy barn. (07)
- B) Explain fundamental requirement of poultry house. (08)