



FIJI NATIONAL UNIVERSITY

College of Agriculture, Fisheries & Forestry
 School of Veterinary, Animal Husbandry & Fisheries
 Department of Animal Husbandry
 Trade Diploma in Animal Husbandry-Year 1

Final Examination

Semester I - 2018

ASH 400: Animal Housing System and Infrastructure

Total Marks: 100

Time Allowed: 3.00 hours

INSTRUCTIONS:

1. This question paper consists of *four* pages.
2. Verify thoroughly whether the given *question paper is complete in all style*.
3. Answer all *questions on the answer booklet*.
4. **No** written or printed materials and mobile phones are allowed in the examination hall
5. **Marks allocated** for each question appears at the side of each question, so allocate your time accordingly.
6. Do mention the **same question number** of the question you're going to answer in the answer script.
7. This paper is divided into two parts. First part contains objective type questions which is having four sections – A, B, C and D. All questions of this part are compulsory. Second part is descriptive type which is having three subjective components- E, F & G.

I. OBJECTIVE TYPE QUESTIONS (40 Marks)

To be answered only on the Answer booklet.

- Section A : Fill in the blanks (10 Marks)
 Section B : True and False (10 Marks)
 Section C : Multiple Choice (10 Marks)
 Section D : Match the following (10 Marks)

II. DESCRIPTIVE TYPE QUESTIONS (60 Marks)

To be answered only on the Answer booklet.

- Section E : Short notes 7 questions and attempt any five (15 Marks)
 Section F : Define/explain/analyse/differentiate/listing/ reasoning 7 questions and attempt any five (15 Marks)
 Section G : Long answers 6 questions and attempt any five (30 Marks)
 : : (10 Marks)

I. OBJECTIVE TYPE QUESTIONS**Section A: Fill in the blanks****(10 x 1 = 10 Marks)**

1. Study of behavior is called _____.
2. Pattern of animal behavior is determined chiefly by _____.
3. High absolute humidity _____ evaporative heat loss greatly.
4. Animal having light coat with glossy texture are _____ affected by _____.
5. Inner wall of the shed up to height of _____ ft. should be finished smoother.
6. Milking must be completed within _____ minutes.
7. Ratio of time spent under vacuum and atmospheric air in the machine milking is about _____.
8. Frequency of milking should be thrice in case of production is between _____ litres per cow per day.
9. Milk is a good media for growth of _____.

Section B: Write "True" or "False"**(10 x 1 = 10 Marks)**

10. Standing animals absorb less solar radiation than those lying down.
11. Conception rate in buffalo is higher during short day length.
12. Clean milk production is possible in loose housing system.
13. No additional exercise is needed for animal's house in loose house.
14. Attention of individual animal is not possible in loose house.
15. Mastitis affected cow should be milked in the last.
16. Sheep and goat do not require elaborate housing facility.
17. Long axis running east – west provide a cooler environment.
18. Heat loss through radiation from goats to cool sky is reduced in low roof sheds.
19. In tropical climate huddling is disadvantageous.

Section C: Multiple choice questions: Select the correct answer**(10 x 1 = 10 Marks)**

20. In loose housing system more animals can be accommodated.
 - a. 5-10%
 - b. 10-15%
 - c. 15-25%
 - d. 26-36%
21. In single row system of management maximum number of animals can be kept as.
 - a. 5-10
 - b. 12-16
 - c. 17-25
 - d. 26-36
22. In double row system maximum number of animals can be kept in one shed
 - a. 60
 - b. 50
 - c. 40
 - d. 30
23. In milking parlor number of standing should be as per the number of milch animals
 - a. 20%
 - b. 25%
 - c. 30%
 - d. 35%
24. Down calves should be transferred in calving pen before expected date of calving
 - a. 1-2 weeks
 - b. 2-3 weeks
 - c. 3-4weeks
 - d. 4-5 weeks

25. Concrete floor for animal shed should have slope of every meter
 a. 1.5 cm b. 2.5 cm
 c. 3.0 cm d. 3.5 cm
26. Ovulation occurs in sheep after onset of estrus
 a. 18-23 hrs b. 24-30 hrs
 c. 31-39 hrs d. 40-49 hrs
27. During flushing in sheep per head per day concentrate should be given
 a. 150g b. 250g
 c. 400g d. 550g
28. Flushing increases lambing rate by
 a. 5-10% b. 10-20%
 c. 20-30% d. 30-40%
29. Oestrous period last in does for about
 a. 14-24 hrs b. 34-38 hrs
 c. 24-28 hrs d. 44-48 hrs

Section D: Match the following

(10 x 1 = 10 Marks)

PART - A

30. Sty
 31. Boar
 32. Thatch
 33. Long axis
 34. Air inlet/outlet
 35. Vacuum
 36. Pre - milking
 37. Fisting
 38. Mastitis
 39. Somatic cell

PART-B

- A. Clean milk
 B. udder
 C. milking
 D. Let down
 E. Milking machine
 F. ventilation
 G. East - west
 H. roof
 I. breeding
 J. pig

II. Descriptive type Questions

Section E: Short notes

(5 x 3 = 15 Marks)

Note: Attempt any FIVE questions only. All carries THREE (3) marks each.

40. Factors affecting efficiency of milking machine.
 41. Hygienic milk production.
 42. Herringbone milking parlor.
 43. Farrowing sty.
 44. Water quality for poultry.
 45. Environmental control house.
 46. Advantages of cage rearing for layers.

Section F: Define/explain/analyze/differentiate/listing/reasoning (5 x 3 = 15 Marks)

Note: Attempt any **FIVE** questions only. All carries **THREE (3)** marks each.

47. Animal behavior
48. Function of behavior
49. Climate
50. Adaptation
51. Homeostasis
52. Animal welfare
53. Acclimatization

Section G: Long answers 6 questions. (4 x 7.5 = 30 Marks)

Note: Attempt any **FOUR** questions only. All carries **SEVEN AND HALF (7.5)** marks each.

54. Mention the effect of high temperature on animals.
55. How climate affect indirectly on the performance of animals.
56. Define loose housing system. Mention advantages and disadvantages of loose housing system
57. Describe in detail about animal behaviour. Also mention the function of animal behaviour.
59. How homeostatic processes work to adjust animals in tropics.

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The End