



FIJI NATIONAL UNIVERSITY

College of Agriculture, Fisheries & Forestry

School of Veterinary Science, Animal Husbandry & Fisheries

Department of Animal Husbandry

Trade Diploma in Agriculture - Year II

Final Examination

Trimester I- 2018

AHB 509: Principles of livestock production and management

Time Allowed: 3.00 hours

Total Marks: 100

INSTRUCTIONS:

1. This paper consists four pages.
2. Please check to see that all your paper is complete.
3. Answer all the objective type questions and descriptive type questions in the answer booklet only.
4. No written or printed material 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. 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- A, B & C

OBJECTIVE TYPE QUESTIONS (40 Marks)

To be answered only on the Answer booklet.

Section A	: Fill in the blanks.	(10 Marks)
Section B	: True or False	(10 Marks)
Section C	: Multiple choice questions	(10 Marks)
Section D	: Match the following.	(10 Marks)

I. DESCRIPTIVE TYPE QUESTIONS (60 marks)

To be answered only on the answer booklet.

Part A	: Short notes 7 questions and attempt any five	(15 Marks)
Part B	: Define/explain/analyze/differentiate/listing/ reasoning 7 questions and attempt any five	(25 Marks)
Part C	: Long answers 6 questions and attempt any five	(20 Marks)

I. OBJECTIVE TYPE QUESTIONS**(Total 40 Marks)****Note: To be answered only on the ANSWER SHEET provided with QUESTION PAPER.****A. Fill in the blanks.****(10 x 1 = 10 Marks)**

1. Fiji is only.....% self-sufficient in dairy production.
2. National average of milk production in Fiji isliters per cow per day.
3. FCDCL has established its own feed mill in the yearto ensure supply of supplementary feed to the farmers.
4. In Fiji there arelarge commercial pig farms which are contributing.....% of the commercial pork production.
5. Thickness of foundation wall of dairy shed vary from.....inches.
6. Jersey breed of dairy cattle was developed in.....
7. Holstein breed of dairy cattle was developed in.....
8. Gestation period of cattle is.....days.
9. Optimum time of insemination in cattle is

B. Write "True" or "False".**10 x 1 = 10 Marks)**

1. Livestock renders services like draft, manure and fuel.
2. Livestock helps to enhance socio-economic status in the society.
3. Adult male castrated cattle is called bullock.
4. Act of mating in Pig is called coupling.
5. Act of mating in sheep is called tugging.
6. Ovulation takes place about 12hrs after the end of estrus.
7. Calves form the future dairy herd.
8. Heifers raised in own farm forms the most reliable replacement.
9. Care of calf starts in the womb of the cow.
10. Dry cows are often neglected and fed poor quality feed.

C. Multiple Choice Questions: Select the correct answer:**(10 x 1 = 10 Marks)**

1. Grunting is the sound produced by_____.
 - a. Cattle.
 - b. Pig.
 - c. Sheep
 - d. Rabbit
2. Castrated male pig is known as _____.
 - a. Boar
 - b. Barrow.
 - c. Store Pig
 - d. Runt

3. Availability of minimum land for fodder production for 2 cows _____.
 - a. 0.5 Acre
 - b. 1.0 Acre
 - c. 1.5 Acre
 - d. 2.0 Acre

4. Best soil for construction of dairy building is _____.
 - a. Clay soil.
 - b. Loam soil
 - c. Sandy soil
 - d. Black soil

5. Minimum grazing land for 30—40 sheep/goats should be _____.
 - a. 0.5 Acre
 - b. 1.0 Acre
 - c. 2.0 Acre
 - d. 3.0 Acre

6. Charolais breed of beef was developed in _____.
 - a. France
 - b. USA
 - c. UK
 - d. India

7. Age at puberty in cattle varies between (months) _____.
 - a. 12-15
 - b. 16-18
 - c. 19-21
 - d. 21-24

8. Age at first mating in cattle (months) _____.
 - a. 18 – 20
 - b. 14 - 17
 - c. 21 - 23
 - d. 23 – 25

9. Breeding age of a bull should be (months) _____.
 - a. 24 - 30
 - b. 30 - 35
 - c. 35 - 40
 - d. 15 – 20

10. Calving to first heat in exotic cow is _____.
 - a. 40 – 45 days
 - b. 46 – 50 days
 - c. 51 – 55 days
 - d. 56 – 60 days

D. Match the Following :**(10 x 1 = 10 Marks)**

Statement A	Ans	Statement B
1. Thatched roof		a. Milk fat
2. Limousine		b. Handling
3. colostrum		c. ring
4. calving		d. half of herd
5. bullocks		e. exercise
6. bull		f. ploughing
7. nasal septum		g. placenta
8. bull		h. anti – bodies
9. halter		i. muscular and lean meat
10. acetic acid		j. fire accident

II. DESCRIPTIVE TYPE QUESTIONS**(Total 60 Marks)****A. Short notes:****(15 Marks)**Note: Attempt any **five** Questions Only. All carries **Three (3)** marks each.

1. Pillars of livestock improvement.
2. Role of livestock in the life of small farmers.
3. Constraints in livestock enterprise.
4. Balanced ration preparation.
5. Conservation of green grass/pasture/fodder.
6. Site of dairy building.
7. Pasture land development.

B. Define/explain/analyze/differentiate/listing/reasoning:**(15 Marks)**Note: Attempt any **five** Questions Only. All carries **Three (3)** marks each.

1. Heifer.
2. Tup
3. Wedder.
4. Yield.
5. Gimmer.
6. Crone.
7. Band.

C. Long answers 6 questions.**(30 Marks)****E. Note: Attempt any four questions only. All carries 7.5 marks each. (4 x 7.5 = 30 Marks)**

1. Describe the economic contribution of livestock in Fiji. Suggest the measures to improve it.
2. What is the feed situation for livestock in Fiji? What could be a strategy that could improve feed situation for livestock in Fiji?
3. Describe the general principles of animal management. Also mention the methods for preparation of concentrate.
4. What is colostrum? Describe the importance of colostrum feeding for new born calves.
5. State the management practices of bull. Also describe the factors responsible for maintenance of libido in bulls.
6. Describe the signs of estrus in livestock.

The End

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