



FIJI NATIONAL UNIVERSITY
College of Agriculture, Fisheries & Forestry
School of Veterinary Science, Animal Husbandry and Fisheries
Department of Animal Husbandry
Trade Diploma in Animal Husbandry-Year 1
Semester I Final Examination - 2018

[ASP400] – Introduction to Animal Science

Time Allowed: 3.00 hours plus (10 minutes reading time) Total Marks: 100

INSTRUCTIONS:

1. This paper consists of four pages only.
2. Please check to see that all your paper is complete.
3. Answer all the Objective Type Questions on the Answer Sheet and Descriptive Type Question 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 **eight (8) questions**. Attempt **any five (5) questions** from this part.

I. OBJECTIVE TYPE QUESTIONS (50 Marks)

To be answered only on the Answer Sheet.

- | | |
|--------------------------------|------------|
| Section A: Fill in the Blanks | (10 Marks) |
| Section B: Matching Type | (10 Marks) |
| Section C: Write True or False | (10 Marks) |
| Section D: Short Answers | (20 Marks) |

II. DESCRIPTIVE TYPE QUESTIONS (50 marks)

There are **eight (8)** descriptive type questions provided, please **attempt any five (5) questions only** and write on the Answer Booklet. Answer every question from a new page to facilitate evaluation.

I. OBJECTIVE TYPE QUESTIONS (50 Marks)

A. Fill in the blanks.

(10 x 1=10 Marks)

1. _____ is an organ in chicken that moistened and softened foodstuffs. .
2. _____ is a mutual relationship between animals with the humans.
3. Chromosomes are found in the _____ of animal cells and other higher organisms.
4. Internal _____ made of bone or cartilage.
5. Many animals are domesticated for _____ consumption.
6. Animals are _____, they can move from place to place.
7. The density of a population is measured as the number of _____ per unit area.
8. Animals grow larger by producing more _____.
9. Plants are multicellular eukaryotes that belong to the kingdom, _____.
10. Animals depend on _____ for food.

B. Match the following:

(10x1=10 Marks)

	ITEM	ANSWERS
	21. A muscular organ used to grind and break up food.	a. Bolus
	22. Organ where almost all nutrients are absorbed.	b. Omasum
	23. Specialized sense organ in fish (detects movement, food, predators and navigates).	c. Metabolism
	24. Stores and soften food in birds.	d. Gizzard
	25. The tube connecting the mouth to the stomach.	e. Cytogenetics
	26. Study of the organization and arrangement of genes on a chromosome.	f. Traits
	27. Previously eaten foodstuff carried back into the mouth.	g. Esophagus
	28. Any observable property of an organism.	h. Lateral line
	29. Converting food into energy.	i. Small Intestine
	30. A heavy, hard organ with a lining that has many folds.	j. Crop

C. Write 'True' or 'False'.

(10x1=10 Marks)

31.	Large intestine is the site of water absorption from G.I. tract.	
32.	Large intestine includes duodenum, jejunum and ileum.	
33.	Any observable property of an organism is a chromosome.	
34.	Bladder is where the digestive, urinary, and reproductive tracts open.	
35.	Charles Darwin is the father of genetics.	
36.	Taming is not domestication.	
37.	Higher temperatures may increase the development of pathogens or parasites.	
38.	Cnidarians have stinging cells.	
39.	Mammals are warm blooded.	
40.	Reptiles and fish are both warm blooded animals.	

D. Short Answers

(20 Marks)

1. Name the five (5) classes of vertebrates and name an example. (5 Marks)
2. What is animal domestication? (1 mark)
3. Identify the year in which animals below were domesticated: (4 Marks)
 - a) Dog
 - b) Sheep
 - c) Pig
 - d) Horse
4. Name the three (3) basic types of digestive system in animals. (3 Marks)
5. Describe the role of lower animals in soil biomass. (2 Marks)
6. Define the following terms: (4 Marks)
 - a) Pedigree Analysis
 - b) Cytogenetic
7. What is population ecology? (1 Mark)

II. Descriptive Type Question**(50 Marks)****Note: Attempt any Five (5) questions only. All carries Ten (10) marks.**

1.	Describe five (5) major differences between vertebrate and invertebrate animals.	(10)
2.	Name the nine (9) Phylums in the Animal Kingdom Classification and give an example.	(10)
3.	Describe the role of the following monogastric organs: a) Small intestine b) Large intestine c) Crop d) Proventriculus e) Caecum	(10)
4.	Describe the process of rumination in cows.	(10)
5.	Discuss the importance of domestication.	(10)
6.	Discuss and list ten (10) characteristics of Amphibian species.	(10)
7.	Identify (10) reasons why animals are important to our lives?	(10)
8.	Discuss the effect of global surface temperature on plant and animal species.	(10)

The End

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