



UNIVERSITY OF SWAZILAND
2nd SEM. 2017/2018
FINAL EXAMINATION PAPER

PROGRAMME: All B.Sc. YEAR I

COURSE CODE: ASC 104

TITLE OF PAPER: ZOOLOGY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ALL QUESTIONS FROM SECTION A
ANSWER ONLY TWO (2) QUESTIONS FROM
SECTION B

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THE CHIEF INVIGILATOR.**

SECTION A

QUESTION 1 a

(10 Marks)

Write TRUE OR FALSE in your answer book.

1. Matter can be considered as living or non-living
A. True
B. False
2. Living things are made by non-living things.
A. True
B. False
3. Living things rely on other living things to stay alive.
A. True
B. False
4. If an object can move but cannot feed, therefore, the object is a living thing.
A. True
B. False
5. The following are characteristic(s) of living things: Respiration, movement, evaporation
A. True
B. False

In the questions below choose the letter with the appropriate answer

6. Another word for living things is:
A. Organ
B. Organism
C. Organelle
7. To be considered alive an object must have:
A. At least one characteristics of living things
B. All the characteristics of living things
C. Most characteristics of living things
8. There are _____ types domain of living things
A. Two
B. Three
C. Four

9. The process of grouping things based on their similarities (shared characteristics) is called

- A. Taxidermy
- B. Taxonomy
- C. Pachidermy
- D. Taxis

10. Which of the following people gave us the classification system that we still use today?

- A. Leonardo Da Vinci
- B. Carolus Linneaus
- C. Pliny the Elder
- D. Aristotle

QUESTION 1 b

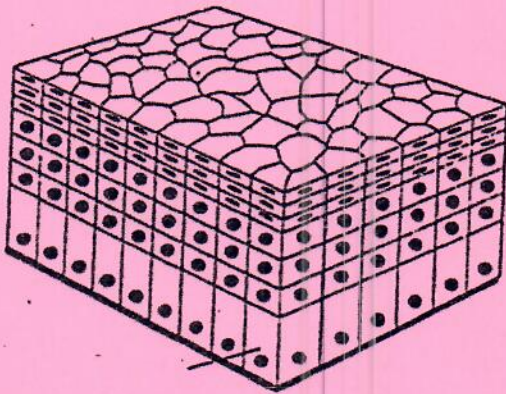
- (a) What is the other word for Classification and systematic naming of living organisms? Itemize the importance of this naming system in zoology. **(5 Marks)**
- (b) What is binomial nomenclature? Discuss the merits and demerits of binomial nomenclature. **(5 Marks)**
- (c) Define evolution and describe three (3) events that drive the evolution of living organisms in nature. **(5 Marks)**

QUESTION 2

- (a) Classify the following organisms into their respective kingdoms as per the five-kingdom system.
humans, mushroom, herbs, amoeba, E.coli, euglena, mold, birds, insects, bushes, paramecium, trees, dogs, streptococcus. **(15 Marks)**
- (b) Differentiate between meiosis and mitosis **(5 Marks)**
- (c) Draw and label a Plant cell **(5 Marks)**

SECTION B**QUESTION 3**

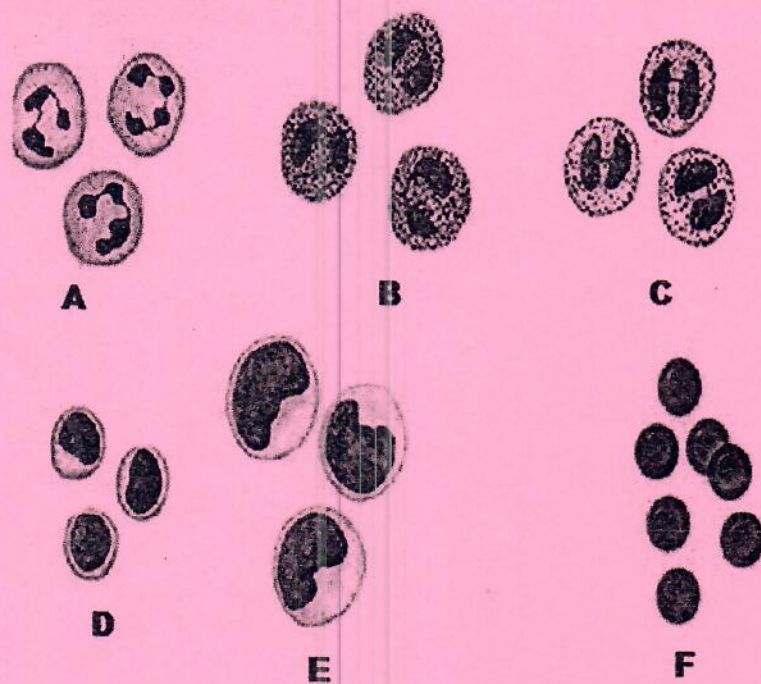
Observe Figure 1 below and answer the following questions:



- a) Identify and name the tissue in Figure 1. **(5 Marks)**
- b) List all its functions? **(10 Marks)**
- c) Give five (5) examples of its location in the body of animals. **(10 Marks)**

QUESTION 4

FIGURE Y

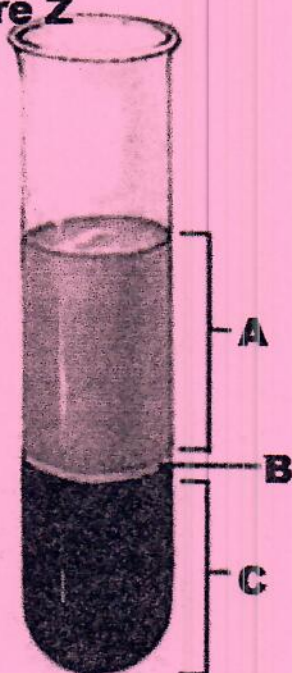


- i. Write the name of each of the cells labelled A,B,C,D,E,F.
- ii. List one (1) function of each cell.

(6 Marks)

(3 Marks)

Figure Z



- i) Identify and write the name of Figure Z. **(3.0 Marks)**
- ii) Name the parts labelled A,B,C. **(6.0 Marks)**
- iii) List the tissues/components found in part A. **(7.0 Marks)**

QUESTION 5

- a) Copy the Table 1 below onto your answer book and complete it by filling your answers in the empty boxes. **(6.0 Marks)**

Table 1

MUSCLE TYPE	STRIATED?	No. OF NUCLEI	VOLUNTARY/INVOLUNTARY?

- b) List the various ways of classifying epithelia tissues. **(7.0 Marks)**
- c) List the functions of the pancreas. **(8.0 Marks)**
- d) Define and give examples of the following;
 - a. A tubular organ. **(2.0 Marks)**
 - b. A compact organ. **(2.0 Marks)**