

PART A: MULTIPLE CHOICE(QUESTIONS 1 to 25)25 MARKS

For each question, choose the correct answer and write the letter A, B, C or D in the space provided on the ANSWER SHEET.

QUESTION 1

Careless use of poisonous pesticides by farmers can kill beneficial insects, animals and humans. Which of the following is a careless way of applying pesticides?

- A. Avoid spraying at the water source.
- B. Continue spraying during rainy conditions.
- C. Use the correct dose as indicated by manufacturer.
- D. Wear protective clothing when mixing and spraying.

QUESTION 2

The deliberate introduction of legume trees is part of the farming system known as

A.	Agroindustry	В.	Integrated farming
C.	Agroforestry	D.	Aquatic farming

QUESTION 3

What is the collective name that includes all the plants?

A.	Flora	B.	Botany	C.	Fauna	D.	Biotic

QUESTION 4

The practice of leaving the land uncultivated so that it recovers naturally is called ______.

A. mulching	B. manuring	C. terracing	D. fallowing
QUESTION 5			
Which soil layer co	ontains humus?		
A. Bed rock	B. Top soil	C. Sub soil	D. Parent rock

Crops can be classified according to their lifespan.

In this type of classification, what term refers to crops that live for many years?

A. annual crops B. biennial crops C. cereal crops D. perennial crops

QUESTION 7

Which of the choices below best describes a positive effect of a cropping system?

- A. Pastures used to restore poor soil fertility.
- B. Use of livestock manure allows less spending on a fertilizer.
- C. Legumes used in crop rotation leads to increased soil fertility.
- D. Planting new crops leads to farmers abandoning traditional food crops.

QUESTION 8

Soil erosion is a common problem in many parts of PNG.



According to the picture above, what have the two farmers built to slow soil erosion?

A. Walls B. Hedges C. Terraces D. Blockades

QUESTION 9

What is the word that best describes the raising of animals?

A.	Cultivation	B.	Husbandry	C. Growing	D.	Breeding
			·····)			

Many of the crops grown in Papua New Guinea today are introduced crops. This means that they were brought in from other countries by missionaries, traders and explorers. However, there are some crops that are native to Papua New Guinea.

Which of the crops below is a native crop?

A. Peanut B. Potato C. Kaukau D. Sago

QUESTION 11

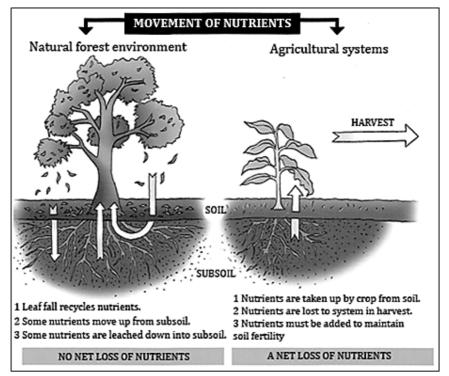
Which of the following is a disadvantage of setting up a hydroponics system of farming?

A. Less labour involved.

- B. Cheap to set up.
- C. Requires knowledge and skills.
- D. Fast way to produce crops.

QUESTION 12

Refer to the diagram showing the movement of nutrients.



What is the most environmental friendly way to maintain soil fertility from harvest?

- A. Use the waste materials as mulch.
- C. Clear and dispose all waste materials.
- B. Cut and burn all waste materials.
- D. Apply the use of inorganic fertilizers.

Re	Refer to the list of animals below.							
i.	Tilapia	ii.	Echidna	iii. Croco	odile	iv. Chick	en v.	Rabbit
Which of the following lists contains only animals that undergo internal fertilization and lay their eggs?								
A.	i, ii, iii only		B. i, iii, iv o	only	C. ii, i	ii, iv only	D. 1	ii, iii, v only
Q	UESTION 14							

Crocodiles and chickens have one common external body opening which they use to pass urine, faeces and for sexual reproduction purposes.

What is the name of this body opening which they have in common?

A. Anus	B. Vent	C. Urethra	D. Cloaca

For Questions 15 and 16, refer to the following information.

Below are the main steps in oil palm fruit processing that are not in the correct order.

- i. Threshing
- ii. Sterilization
- iii. Digestion
- iv. Weighing

QUESTION 15

What is the correct order of processing?

A.	iv, iii, i, ii	B.	iv, ii, i, iii
C.	iv, iii, ii, i	D.	iv, ii, iii, i

QUESTION 16

Which of the steps above describes the process of steaming and destroying natural enzymes?

A. iv B. iii C. ii D. i

QUESTION 17

What is the name given to the study of relationships between living things and their environment?

A. Diology D. Dotally C. Ecosystelli D. Ecol	A. Biology	B. Botany	C. Ecosystem	D. Ecology
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What is the name given to the crop belonging to the Grass family Poaceae or Gramineae?

A. Cereals	B. Latex	C. Legumes	D. Vegetables
QUESTION 19			
Digestion in pigs a	nd humans begins in th	e mouth.	
Which of the follo	wing is first digested in	the mouth?	
A. Cellulose	B. Fibre	C. Sugar	D. Vitamins

QUESTION 20

John looks after chickens and at the same time he grows crops for consumption and to feed his chickens. The chickens' manure is used as fertilizer for the crops.

Which type of farming system does John practice?

A.	Mixed farming	В.	Integrated farming
C.	Pastural farming	D.	Ley farming

QUESTION 21

Which alternatives below correctly lists the general functions of a plant's stem?

- A. Transport nutrients, support and protect the plant
- B. Transport nutrients, support and protect the plant
- C. Support the plant, absorb and transport nutrients
- D. Protect the plant, absorb and transport nutrients

QUESTION 22

Which of the following animals is protected by a trade protection act?

A. Barramundi B. Trout C. Pig D. Crocodile

Most customers in developed countries want agricultural products that are produced organically. Organic coffee is an example.

Most people prefer organically grown coffee mainly because it

A.	has a higher price.	В.	has a lower price.
C.	contains fewer chemicals.	D.	is produced locally.

QUESTION 24

After shaking soil in a jar of water and allowing to settle, which soil particles will be present at the top of the jar?

A. Clay	B. Gravel	C. Silt	D. Sand				
QUESTION 25 Which of the alternatives is a BIOTIC factor?							
A. Temperature	B. Competition	C. Soil pH	D. Wind				

PART B:SHORT ANSWERS(QUESTIONS 26 to 45)20 MARKS

For each question, write the correct answer in the space provided on the ANSWER SHEET.

QUESTION 26

A common term used to refer to all plant life collectively is flora.

What other term is similarly used to collectively refer to all animal life?

QUESTION 27

Peter made his garden on the slopes of a hill. He dug drainage ditches down the slope instead of across the slope.

When heavy rain falls on Peter's garden what problem is he likely to face?

QUESTION 28

Increased agricultural activities ensure that people at the local, provincial and national levels have access to enough food to enable them to live healthy lives.

This is an advantage of agricultural activities which is referred to as improved food

QUESTION 29

Biotic factors are the biological influences on the growth of plants. There are four (4) main biotic factors.

Name any one of the 4 factors.

QUESTION 30

Some soils are able to retain more water while other soils allow water to drain.

The ability of a type of soil to absorb or let water drain is called ______.

QUESTION 31

Name the scientific measure used to determine the level of acidity or alkalinity of soil where the most acidic soil is given a value of 0 while the most alkaline soil is given a value of 14.

QUESTION 32

Most agricultural plants are classified according to their uses. One particular group of crops are grown for the purpose of producing food drinks such as coffee, tea, cocoa and lemon grass.

Such crops are generally referred to as _____ crops.

There are several different types of pastoral farming systems. One such system is where a large enclosed farm (hundreds of hectares) is used for keeping livestock such as cattle, horses or sheep.

Name this type of pastoral farming system.

QUESTION 34

Materials such as compost, mulch, animal manure and NPK are added to the soil to supply nutrients to plants.

Such materials are generally referred to as ______.

QUESTION 35

NPK is an inorganic substance commonly used to add three (3) macronutrients to the soil.

What macronutrient does the letter P in these initials stand for?

QUESTION 36

Give the scientific name of the bacteria that converts nitrogen in soil to nitrates and is found in the roots of legume plants.

QUESTION 37

Name the small lumps that are found on the roots of legume plants that contain bacteria.

QUESTION 38

Which soil type is not good for general cultivation because it cannot retain water and nutrients?

QUESTION 39

Name the practice of covering bare soil around a desired crop with dead plant materials in order to prevent soil water evaporating and soil erosion.

QUESTION 40

The three (3) main economic environment levels are the national level, the provincial level and the local level. Somo coffee factory has been employing labourers to work in the factory.

Which of the main economic environment levels does Somo coffee factory impact the most?

Refer to the soil texture triangle and the information provided below to answer Questions 41, 42 and 43.

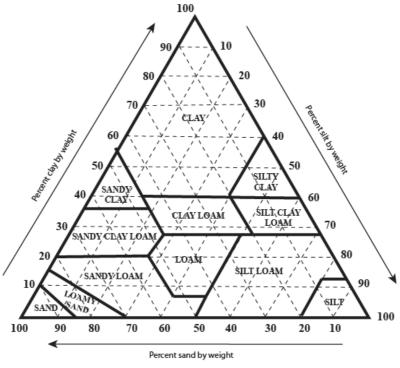


Figure 2. Soil texture triangle.

QUESTION 41

According to the soil texture triangle above, what is the highest percentage of silt that can be contained in clay soil?

QUESTION 42

A soil sedimentation test was done for four (4) soil samples P, Q, R and S. The results are shown in the table below.

Sample	Sand (%)	Silt (%)	Clay (%)
Р	10	60	30
Q	60	10	30
R	40	40	20
S	30	20	50

Which of the soil samples P, Q, R or S can be classified as sandy clay loam?

QUESTION 43

What type of soil is soil sample R?

For Questions 44 and 45, refer to the following information.

The diagram below a soil sample obtained from a farm.

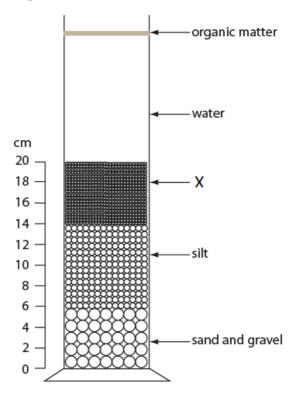


Figure 1. The result of a sedimentation test on a sample of soil from Zogi farm.

QUESTION 44

What type of soil particle is represented by the letter X.

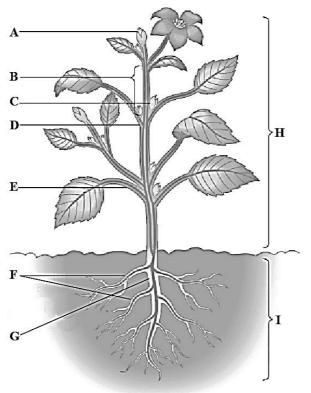
QUESTION 45

Calculate the percentage of silt in the sample.

PART C: EXTENDED RESPONSE

QUESTION 46

The diagram below shows the common parts of a plant labeled A to I.



Word list		
petiole	node	shoot
root	auxillary bud	lateral root
terminal bud	primary root	internode

Match the following letters with their names from the word list given above.

A.

I

- D.
- E. G.
- H.

END OF EXAMINATION

5 MARKS

AGRICULTURE - ANSWER SHEET

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YEAR		PROV. SCHOOL		DL	CAND No.			
1	6							
NAME								
SCHOOL								

PART A: (Questions 1 to 25)

Write the letter of your answer next to each question below.

1	6	11	16	21
2	7	12	17	22
3	8	13	18	23
4	9	14	19	24
5	10	15	20	25

PART B (Questions 26 to 45)

Write your answer next to each question below.

26	
27	
28	
29	
30	

41

42

43

44

45

31	
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33	
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36	
37	
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PART C (Questions 46 to 50)

i

Write your answer next to each question below.

2		1
	A	
	D	
46	E	
	G	
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MARKER 2



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