

# Examination No: **NORTHERN EDUCATION DIVISION 2024 PSLCE PRE - MOCK EXAMINATION PRIMARY SCIENCE**

(100 marks)

Date .....

Subject number: P163

**Time Allowed: 2hours** 

08:00 - 10:00 am

Name of Candidate: (Surname First)

Name of School:Zone:District:

Instructions

- 1. This paper contains 11 pages. Please check.
- 2. This paper has two sections A and B. Section A consists of 40 multiple choice questions carrying 1 mark each. Section **B** has 10 structured questions. Write answers to this section in the space provided.
- 3. Answer all questions.
- 4. In the table provided on this page, tick against question number you have answered.

## 5. IMPORTANT

- Please make sure you have written your name, school name and examination number on the spaces provided
- Hand in your question paper to the invigilator when time is called to stop writing.

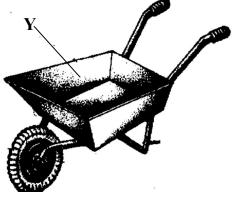
Question number	Tick Qs 51-60 if answered	Do not write in these columns	
1-40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
L	1		

## **SECTION A (40 MARKS)**

# AGRICULTURE

- 1. Which principle of farm business help the farmer by reducing cost?
  - A. demand
  - B. supply
  - C. substitution of inputs
  - D. comparative advantage
- The following are ways of improving soil fertility except \_\_\_\_\_
  - A. Practicing mixed cropping
  - B. agroforestry
  - C. applying manure
  - D. avoid overgrazing
- 3. Which of the following indigenous farm technologies is used for reducing size of legumes?
  - A. mortar
  - B. maize Sheller
  - C. querns
  - D. leaf bag

**Figure 1** is a diagram of a farm implement. Use it to answer questions **3** and **4**.



- 4. Identify the farm implement.
  - A. an oxcart
  - B. wheelbarrow
  - C. rake
  - D. cart body

- 5. What is the name of the part labelled **Y**?
  - A. body
  - B. barrow
  - C. carrying body
  - D. bearing

Figure 2 is an animal husbandry practice. Use it to answer questions 9.

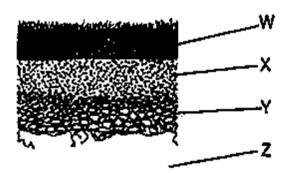


- 6. Which animal husbandry practice is being done?A. drenching C. vaccinationB. feeding D. castration
- 7. Which of the following is a reason for trimming flowers?
  - A. maintaining flowers
  - B. reducing pest
  - C. improving quality of flowers
  - D. making a desirable shape
- 8. Which of the following is not a major factor of production?
  - A. land
  - B. fertility
  - C. labour
  - D. capital
- 9. If all the fish in a pond weigh 50kg. What would be the daily amount of fish feed?C. 1000kg

### 2024

- D. 500kg
- E. 10kg
- F. 2.5kg

Figure 3 is a diagram of layers of soil. Use it to answer questions 10 and 11



- 10. Identify the diagram above.
  - A. soil profile
  - B. soil structure
  - C. soil texture
  - D. srumb soil
- 11.On which layer of soil are most living organism found?
  - A. X
  - B. Y
  - C. W
  - D. Z
- 12. A record which shows the amount of produce harvested on a farm is called \_\_\_\_\_
  - A. layers record
  - B. labour record
  - C. crop record
  - D. yield record
- 13. Which of the following is not a common weed for groundnuts?

Examination No:

# Page 3 of 11

P163

- B. khovani
- C. rosette
- D. chisoso
- 14. Which of the following is a sub-branch of apiculture under animal production?
  - A. agronomy
  - B. apiculture
  - C. olericulture
  - D. silviculture

Figure 4 is a diagram of animal. Use it to answer questions, 15



- 15. Why is the animal important to crops?
  - A. source of meat
  - B. source of manure
  - C. source of employment
  - D. source of food
- 16. Which chemical can be used to control the pest?
  - E. caebaryl
  - F. dipterex
  - G. actelic dust
  - H. ash
- 17. Which of the following is not a type of agroforestry?
  - A. silvo arable
  - B. silvo pasture
  - C. forest farming
  - D. folder banks

A. denje

Examination No:		
	e 4 of 11 P163	
18. Which of the following are ways of	B. sending messages	
keeping water is <b>not</b> safe	C. receiving messages	
A. boiling	D. interpreting messages	
B. adding medicine	24. Which of the following is a sign of night	
C. filtering	blindness in a person?	
D. adding chemicals	A. tiredness	
	B. pale hands	
19. Why do fish come close to the surface of	C. bleeding of gums	
water in a pond?	D. dry and rough skin	
A. to gasp for air		
B. to eat food	25. Which of the following parts of an electric	
C. to gasp for good water	circuit controls the flow of electricity.	
D. to play	A. cell	
	B. bulb	
20. Which of the following fruit disease attack	C. switch	
mangoes?	D. fuse	
A. rusts		
B. moth	26. Which of the following foods provide the	
C. anthracnose	body with energy?	
D. white fly	A. fish	
	B. pumpkin leaves	
SCIENCE AND TECHNOLOGY	C. honey	
21. The heart pumps blood to the lungs through	D. beans	
A. venacava		
B. aorta	Figure 5 is a diagram of an invertebrates	
C. pulmonary veins	animals. Use it to answer questions 27 and 28.	
D. pulmonary artery		
	0	
22. Why do invalids require little	o 🕢	
carbohydrates and fats?	•••	
A. they are fat		
B. they have damaged tissues		
C. they use less energy	27. Identify the invertebrate	
D. they have weak bodies	A. amoeba	
	B. trypanosome	
23. what does the term decoding mean?	C. arthropods	
A. inputting a message	D. bacteria	

- 23. what does the term decoding mean ?
  - A. inputting a message

Exa	nination No:
2024 Page	e 5 of 11 P163
28. To which group of invertebrates does the	A. drying
organism belong?	B. airing
A. protozoa	C. line
B. plasmodia	D. sun drying
C. worm	
D. insects	33. Which of the following state of matter
	process helps in laundry?
29. Which part of the human brain controls	A. evaporation
digestion?	B. freezing
A. cerebellum	C. condensation
B. cerebrum	D. melting
C. spinal cord	
D. medulla oblongata	34. Which of the following sense organ is used
	for touching?
30. Which of the following methods can	A. nose
separate a mixture of iron fillings and	B. skin
flour?	C. tongue
A. filtration	D. ear
B. distillation	
C. magnetism	35. Which of the following technologies can
D. winnowing	help conserve the environment?
5	A. mortar
31. Which of the following would increase the	B. canoe
mechanical advantage of a pulley?	C. bow and arrow
A. greasing the pulley	D. solar panel
B. increasing the number of pulleys	
C. using longer rope	36. Which of the following is a procedure in
D. changing direction of effort	processing maize?
	A. washing
<b>Figure 5</b> is a diagram of a laundry process.	B. pounding
Use it to answer questions <b>32</b>	C. chopping
A A A A A A A A A A A A A A A A A A A	D. salting
	37. Which of the following groups of people is
	likely affected by rickets?
	A. pregnant people
	B. sedentary workers
22 Identify the loundry process	C. eldery people

32. Identify the laundry process.

- B. sedentary workers
- C. eldery people

	mination No:	
	ge 6 of 11 A. adolescence	P163
D. young children		
29 Which of the fallowing is not a	B. maturity	
38. Which of the following is not a	C. old age	
composition of blood?	D. puberty	
A. plasma		
B. veins	40. Which of the following is a moder	n
C. platelets	preservation technology	
D. red blood cells	A. sun drying	
	B. canning	
39. The period when boys and girls are	C. salting	
changing from childhood to adulthood is	D. smoking	
called		
	ON B (60 MARKS)	
AG	RICULTURE	
(b) State any two reasons for controlling soil er	osion	(1 ma
(b) State any two reasons for controlling soil er	osion	(1 ma
(c) List down any two major elements of the a	gricultural environment	(2 mark
(c) List down any two major elements of the a	gricultural environment	(2 mark
(c) List down any two major elements of the a	gricultural environment	(1 ma (2 mark _(1 mark (1 ma
(c) List down any two major elements of the a	gricultural environment	(2 mark _(1 mark
(c) List down any two major elements of the a i. ii.	gricultural environment	(2 mark _(1 mark
<ul> <li>(c) List down any two major elements of the and i.</li> <li>ii.</li> <li>Figure 6 is a a diagram of land preparation for</li> </ul>	gricultural environment	(2 mark _(1 mark
<ul> <li>(c) List down any two major elements of the and i.</li> <li>ii.</li> <li>Figure 6 is a a diagram of land preparation for</li> </ul>	gricultural environment	(2 mark _(1 mark
<ul> <li>(c) List down any two major elements of the and i.</li> <li>ii.</li> <li>Figure 6 is a a diagram of land preparation for</li> </ul>	gricultural environment	(2 mark _(1 mark
<ul> <li>(c) List down any two major elements of the and i.</li> <li>ii.</li> <li>Figure 6 is a a diagram of land preparation for</li> </ul>	gricultural environment	(2 mark _(1 mark
<ul> <li>(c) List down any two major elements of the and i.</li> <li>ii.</li> <li>Figure 6 is a a diagram of land preparation for</li> </ul>	gricultural environment	(2 mark _(1 mark

ii. State any two importance of the method shown above.

	Examination No:	
2024	Page 7 of 11	P163
		(2 marks)
(b)	Give any two examples of fruits which can be used as medicines.	
	i ii.	<i></i>
43. (a)	11 Define irrigation	(1 mark)
(b)	Explain how sprinkler irrigation works	(1 mark)
(c)	State any two ways in which irrigation is important to a farmer.	(1 mark)
	i)	(1 mark)
	ii)	(1 mark)

Figure 7 is a diagram of a marketing function. Use it to answer question 44 (a) i and ii.



44.(a) i. Identify the marketing function.

ii. Explain the importance of this marketing function to a farmer

(2 marks)

(1 mark)

(b) Give any two ways of coping with risks in a farm business.

45.(a) i. State any two ways of maintaining a motorized pump.

(2 marks)

	Examination No:	
2024	Page 8 of 11	P163
		(1 mark)
		(1 mark)
ii. Why is greasing the	hub of an farm cart important?	( *** )
		(2 marks
(b) Give any two use of a	gourd.	
		(2 marks
46.(a) State any two effects of	of lice in goats.	
i		(1 mark
		(1 mark
ii.		
(h) Evaloin one was of a	antralling lies in goots	
(b) Explain one way of co	ontrolling lice in goats	
		(1 marl

(c) Figure 6 is a diagram showing one of the risk associated with farm business.



a. Identify the risk shown in the diagram above

	Examination No:	
2024	Page 9 of 11	P163
		(1 mark)

# SCIENCE AND TECHNOLOGY

47. Explain how each of the following indigenous technologies could be improved

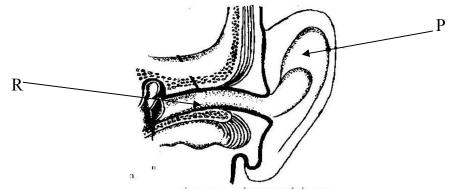
- i. An arrow\_\_\_\_\_(1 mark)
- ii. pestle \_\_\_\_\_(1 mark)

48. The table below shows how a learner classified different food items.

<b>Protective foods</b>	Energy giving foods	Body building foods
Potatoes	Paw paw	Grasshoppers
Bonongwe	Mice	

- i. Name any one food item which was wrongly classified

Figure 8 is a diagram of human ear. Use it to answer questions that follow.



49.(a) Name the parts labelled **P** and **R**.

P\_\_\_\_\_\_R\_\_\_\_\_

(b) What is the function of the part labelled P

\_\_\_\_\_(1 mark)

(2 marks)

(1 mark)

(c) State any two ways of caring for the ear.

i.

		Examination No:	
2024	ii.	Page 10 of 11	<b>P163</b> (1 mark)
50. (a)		examples of information and communication technologies	(1 mark)
(b)	State tw	o importance of information and communication technologies	(2 marks
			(1 mark)
(c)	Identify	the third step involved in designing information and communication tech	(1 mark) nnologies.
51.(a) S	State any i.	one problem of each of the following technologies hoe	(2 marks)
	ii.	fishing net	(1 mark)
(b)		how farmers can solve each of the following problems of marketing. Lack of direct access to buyers	(1 mark)
	ii) H	ligh transport cost	<u>(</u> 1 mark)
(c)	Define th	ne term marketing.	(1 mark)
			(2 mark)

(b) Give any two advantages of the cooking method labelled Y i.	2024	Page 11 of 11	P163
XY(2 marks (b) Give any two advantages of the cooking method labelled Y i(1 marks ii(1 marks)			questions that follow
(b) Give any two advantages of the cooking method labelled Y i. ii. ii.	52. (a) Identify the cooking	g methods labelled $\mathbf{X}$ and $\mathbf{Y}$	
(2 marks) (b) Give any two advantages of the cooking method labelled Y i	X	Y	
i(1 mark ii			(2 marks)
ii. (1 mark	(b) Give any two advan	tages of the cooking method labelled Y	
ii	i.		
			(1 mark)
(1 mark	11		(1 mark)
			(1 mark)

Examination No: \_\_\_\_\_

(1 marks)

# END OF QUESTION PAPER