

EXAMINATION NO.: \_\_\_\_\_



# CHITIPA DISTRICT COUNCIL

## 2024 PSLCE POST COACHING EXAMINATION

### PRIMARY SCIENCE

(100 marks)

Subject Number: P131

Wednesday, April 9, 2024

Time Allowed: 2 hours

08:00 – 10:00 am

Name of Candidate: \_\_\_\_\_

(Surname First)

Name of School: \_\_\_\_\_

#### Instructions

- This paper contains 10 printed pages. Please check**
- This paper has **two** sections **A** and **B**. Section **A** Consists of **40** multiple choice questions carrying 1 mark each. Encircle a letter of your choice representing the right answer to each question. Section **B** has **12** structured questions. Write your answer to this section on the question paper in the spaces provided. The maximum number of marks for each answer is indicated against the question.
- Answer **all** questions
- In the table provided on this page, **tick** against the question number you have answered.
- IMPORTANT**
  - Please make sure you have written your **name**, and **examination number** on the question paper in the spaces provided.
  - Hand in your question paper to the invigilator when time is called to stop writing.

Question Number	Tick Questions 41-52 if answered	Do not write in these columns	
1-40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			

Turn over

## SECTION A (40 marks)

Answer all questions in this section

## AGRICULTURE

1. Which of the following is a fruit vegetable?  
A. onions                      C. pepper  
B. irish potatoes          D. carrots
  2. Why is knowledge of land classification important to a farmer?  
A. to prevent crop diseases.  
B. to improve soil texture.  
C. to increase soil erosion.  
D. to cultivate the right crop.
  3. Why is surface run off bad for agricultural production?  
A. it takes water away from the soil.  
B. it causes weathering of rocks.  
C. it removes top soil.  
D. it causes water logging upland.
  4. Why is it important for farmers to pay back credit on time?  
A. they get more money.  
B. the pay a little more interests.  
C. they pay less interest.  
D. they get high yields.
  5. Name the food item drawn.  
A. apple                      C. ice cream  
B. biscuit                    D. bread
  6. A market is a place where people \_\_\_\_\_.  
A. sell things for food.  
B. buy things for food.  
C. buy and sell things.  
D. they keep old items only.
  7. Which of the following is a factor of agricultural production?  
A. labour                      C. stock  
B. size                          D. slope
  8. Which of the following crops grow well in clay soil?  
A. cassava and sweet potatoes.  
B. irish potatoes and groundnuts.  
C. rice and sugar cane.  
D. beans and okra.
  9. Which one is an environmental condition to consider when growing fruits?  
A. deep, fertile conditions.  
B. hot conditions.  
C. loam soil conditions.  
D. climatic conditions.
- Study the illustration below and answer questions 10 and 11.

**Figure 1** is a diagram showing food that is bought.



10. What is the name of the indigenous farm machinery?  
A. gourd and pot      C. pot and stick

2024

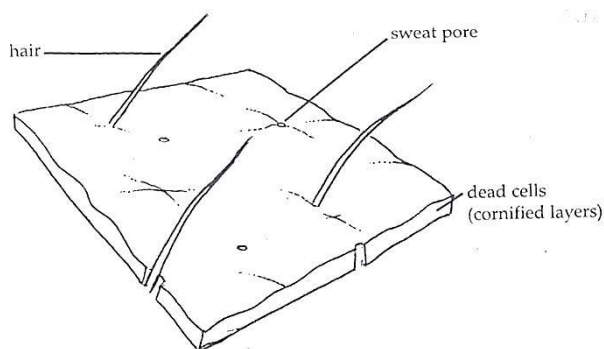
Page 3 of 10

P163

- B. mortar and pestle D. ginnery
11. What is the use of the farm machinery?  
A. for grinding  
B. for storing seeds  
C. for pounding  
D. for soaking
12. Which of the following pairs of fish type is suitable for farming?  
A. mcheni and makumba  
B. mlamba and kampango  
C. makumba and usipa  
D. mphande and makumba
13. Why should cassava cuttings be planted at an angle?  
A. to grow fast  
B. to prevent it from rotting  
C. is planted by using cuttings  
D. because of the first planting rains
14. What type of feed is given to broiler chickens of two weeks old?  
A. broiler starter  
B. growers mash  
C. broiler finisher  
D. layers mash
15. Which of the following pesticides can be used to control weevils?  
A. sevin C. marathion  
B. dipterex D. actelic
16. Which one of the following is **not** a method of preserving fish for a long time?  
A. smoking C. freezing  
B. boiling D. salting
17. The growing of flowers, fruits and vegetables is called.  
A. floriculture  
B. arboriculture  
C. horticulture  
D. pomoculture
18. Which of the following breeds of cattle is suitable for milk production?  
A. Fresian C. Hereford  
B. Africander D. Brahman
19. What is the importance of wire mesh in a deep litter system of keeping chicken.  
A. to collect eggs  
B. for manure to spread all over  
C. to protect chicken from predators  
D. to control breeding
20. Which of the following is the parasite of fish?  
A. earthworm  
B. aphid  
C. round worm  
D. frog
- SCIENCE AND TECHNOLOGY**
21. The function of the white blood cells in the body is to \_\_\_\_\_.  
A. fight germs  
B. help in clotting blood  
C. transport oxygen  
D. transport food
22. Which are the male reproductive organs?  
A. vagina and oviduct  
B. penis and oviduct  
C. testis and uterus  
D. penis and testis
23. What type of force is produced as a result of rubbing two objects together?  
A. gravitational force  
B. magnetic force  
C. frictional force  
D. elastic force
24. Which of the following is an indirect source of light?

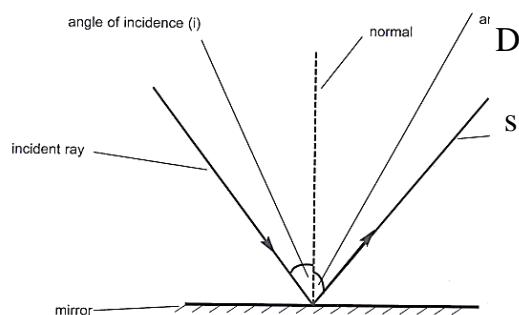
- A. star                      C. fire  
B. sun                      D. bulb

**Figure 2** is a diagram showing one of the sense organs. Use it to answer question 25.



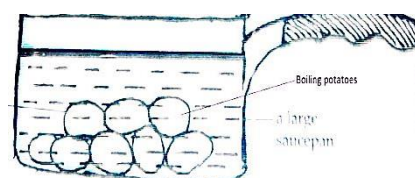
25. Name the sense organ.  
A. nose                      C. tongue  
B. skin                      D. eye
26. Which fin in a fish is used for forward movement?  
A. tail fin                      C. pelvic fin  
B. pectoral fin                      D. anal fin
27. Which is an advantage of using classroom technology?  
A. usually not durable  
B. may not be precise  
C. encourage creativity  
D. time consuming
28. Which one of the following diseases would you get from the unwashed mango?  
A. AIDS                      C. bilharzia  
B. diarrhoea                      D. malaria

**Figure 3** shows a ray of light reflected by a plane mirror. Use it to answer question 29.



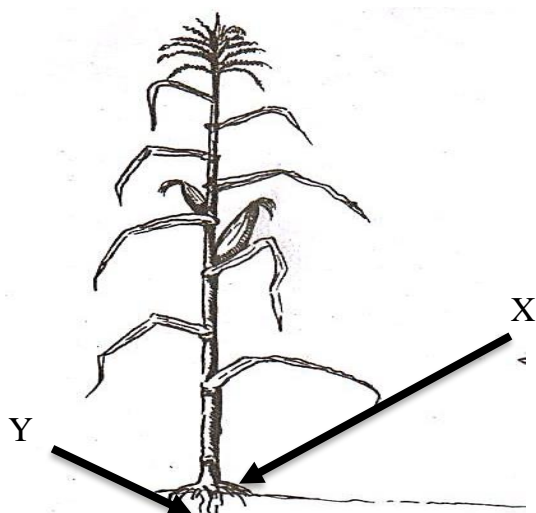
29. What is the name of the ray marked S?  
A. Incident ray                      C. refracted ray  
B. Reflected ray                      D. Emergent ray
30. Which one is the function of roots?  
A. to propagate the plant  
B. to make food for the plant  
C. to stop the plant from falling  
D. to transport food to the plant

Study the diagram of the cooking pot below and answer questions 31 and 32.



31. Why is the cooking pot made of metal?  
A. heat is cheap  
B. metals are non-conductor of heat  
C. metal conduct heat  
D. metal is made of plastic
32. How is the plastic handle useful in a cooking pot.  
A. can conduct electricity  
B. it absorbs more heat  
C. plastic is a poor conductor of heat  
D. plastic produce heat
33. What is the advantage of using pulley systems?  
A. to change direction of a force  
B. tightening bolts  
C. for holding small objects  
D. for stopping loads
34. Which component of the blood is responsible for transporting oxygen?  
A. the red blood cells  
B. the white blood cells  
C. plasma  
D. platelets

35. The part of the Ear that carries messages from the ear to the brain is the \_\_\_\_\_.  
 A. eardrum C. auditory nerve  
 B. eustacian tube D. optic nerve
36. **Figure 4** is a diagram showing a maize plant. Use it to answer questions 36 and 37.



- C. prop and Aerial  
 D. aerial and adventitious
37. Which of the following is the **main** function of the roots marked Y.  
 A. taking food from the soil  
 B. supporting the plant  
 C. taking in air for the plant  
 D. storing food for the plant
38. Why does an image in a pinhole camera look upside down?  
 A. light has speed  
 B. light travels in a straight line  
 C. light can be reflected  
 D. light can be refracted
39. Which of the following is a sign of diarrhea?  
 A. itching in the affected parts  
 B. hydration  
 C. watery stools  
 D. sweating
40. What method of cooking food requires pre-heating the oven?  
 A. boiling B. stewing  
 C. roasting D. baking

36. The roots marked X and Y are \_\_\_\_\_.  
 A. adventitious and fibrous  
 B. prop and fibrous

**Section B (60 marks)**  
**Agriculture**

41. a. Name one type of forest.

\_\_\_\_\_

**1 mark**

- b. Mention any two characteristics of exotic trees.

\_\_\_\_\_

**1 mark**

- c. Explain any one way in which trees reduce soil erosion.

\_\_\_\_\_

**2 marks**

**Figure 5** is a diagram of a farm tool.



42. a. Name the farm tool.

\_\_\_\_\_

1 mark

b. What is the function of the farm tool?

\_\_\_\_\_

1 mark

c. Mention any one way of maintaining the farm tool.

\_\_\_\_\_

1 mark

43. a. Give one type of goat houses.

\_\_\_\_\_

1 mark

b. Explain any one suitable characteristics of a goat house.

\_\_\_\_\_

\_\_\_\_\_

2 marks

c. How does grazing differ from browsing.

\_\_\_\_\_

\_\_\_\_\_

2 marks

44. **Figure 6** is a diagram, study it and answer the questions that follow.



a. Identify the method of irrigation shown on the diagram.

\_\_\_\_\_

1 mark

b. Give three reasons why irrigation is important.

---

---

---

3 marks

c. Give two examples of crops which can be grown using the above method of irrigation.

---

---

2 marks

45. a. What is stall feeding?

---

---

2 marks

b. Why is stall feeding important in beef production? Give two reasons.

---

---

2 marks

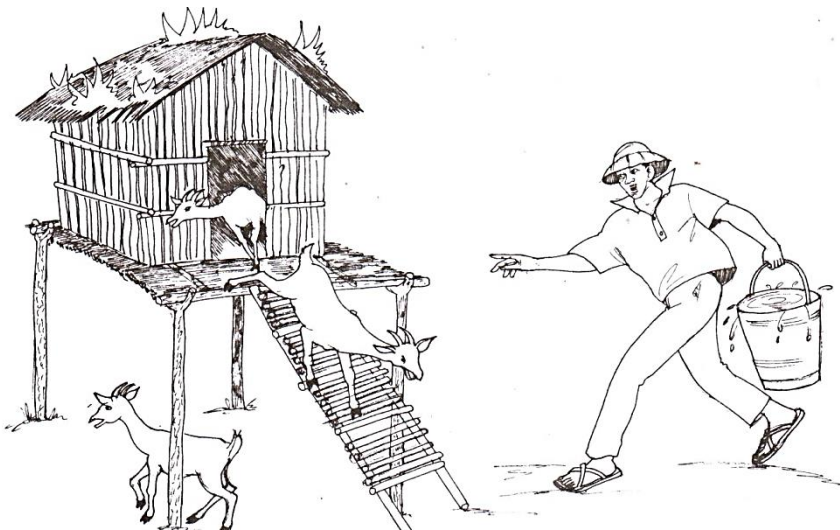
c. State any one disadvantage of stall feeding.

---

---

2 marks

**Figure 7** below shows an illustration of a risk. Study it and answer the questions that follow.



46. a. What is the type of risk in the illustration?



---

1 mark

- b. Explain any one way of coping up with the risk.

---

---

2 marks

47. a. What is the difference between minor and major nutrients?

---

---

2 marks

- b. State any two deficiency signs of potassium in plants.

---

---

2 marks

### SCIENCE AND TECHNOLOGY

- 48 a. (i). Define the term fertilization.

---

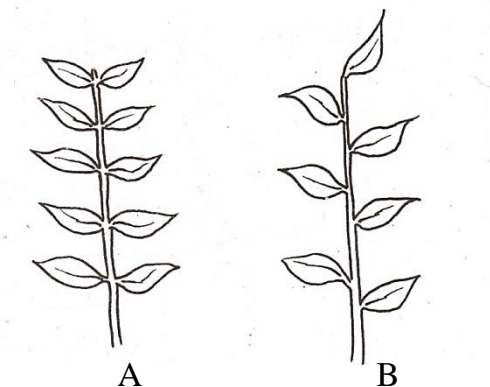
1 mark

- (ii). How do plants depend on insects for pollination.

---

1 mark

- b. **Figure 8** is a diagram showing different arrangements of leaves.



- (i). Name the leaf arrangement above.

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

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



(ii). Explain two emotional changes that take place in boys as they grow into adults.

---

---

4 marks

49. a List two stages of a scientific investigation.

---

---

2 marks

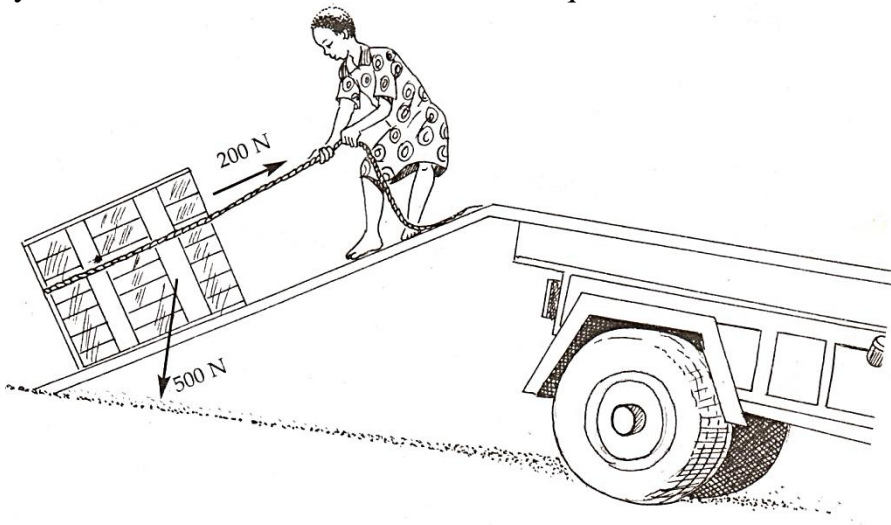
b. Explain two factors to consider when costing toys.

---

---

2 marks

50. Study the illustration below and answer the questions that follow...



a. Name the machine.

---

---

1 mark

b. Calculate mechanical advantage of the machine.

---

---

2 marks

c. Mention two ways of improving the machine.

---

---

2 marks

51. a. Define the term environment.

\_\_\_\_\_

1 mark

b. Give two activities that can lead to the destruction of the environment.

\_\_\_\_\_

\_\_\_\_\_

2 marks

c. Name any two technologies that can help to conserve the environment.

\_\_\_\_\_

\_\_\_\_\_

2 marks

52. a. State any two reasons why people may become vegetarians.

\_\_\_\_\_

\_\_\_\_\_

2 marks

b. Explain any two, guidelines that should be followed when preparing meals for elderly people.

\_\_\_\_\_

\_\_\_\_\_

4 marks

END OF QUESTION PAPER

NB: This paper contains 10 pages.