



EXAMINATIONS No: \_\_\_\_\_

# ZOMBA URBAN DISTRICT ASSESSMENT

## 2025 PRIMARY SCHOOL LEAVING CERTIFICATE EXAMINATION

### PRIMARY SCIENCE (100 MARKS)

DATE: Friday 31<sup>st</sup> January, 2025

Subject Number: P165  
Time allowed: 2 HRS  
8:00 – 10:00 AM

Name of candidate: \_\_\_\_\_

(Surname First)

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

#### Instructions

1. This paper contains 7 printed pages please check
2. There are two sections in this paper, A and B
3. Answer all questions in section A and B
4. The maximum number of the marks for each answer is indicated against each question
5. In section A Encircle the letter representing the right answer to each question. Write your answers to the questions in section B in the spaces provided on the question paper.
6. In the table provided on this page , tick against the question number you have answered apart from questions 1 – 30.
7. **IMPORTANT**
  - Write your **name** and **name of your school** in the spaces provided above and your **Examination Number** on top of each page of the question paper.
  - Hand in your worked question paper to the invigilator when time is called to stop writing.

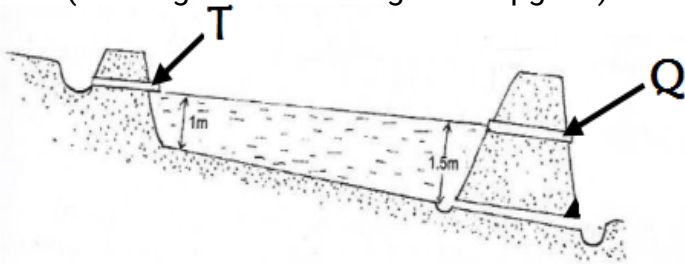
Turn Over

Question Number	Tick if answered	Do not write in these columns	
1-30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
<b>TOTAL</b>			

## AGRICULTURE

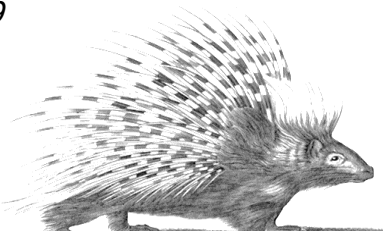
- Which of the following is a fruit vegetable  
A. Onion C. Irish  
B. Pepper D. Carrots
- Which of the following feeds should be given to a layer that is three weeks old?  
A. Chick mash C. Growers mash  
B. Broiler starter D. Broiler
- Identify a breed of cattle suitable for milk production  
A. Brahman C. Fresian  
B. Africander D. Hereford

Figure 1 is a cross sectional diagram of a fish pond. Use it to answer question 4 and 5. (drawing from std 8 agr book pg 47)



- What is the name of part labeled T?  
A. Inlet C. Over flow pipe  
B. Pond wall D. Outlet
- Which of the following is most likely to happen if a farmer closes part labeled S while Q is open?  
A. Fish will lack oxygen  
B. The pond will dry up  
C. Water will fill up the pond  
D. Water will over flow
- Which of the following types of soil is suitable for Irish potatoes?  
A. Sand C. Loam  
B. Clay D. Silt
- Which of the following fertilizer application methods is recommended in maize?  
A. Dollop C. Bunding  
B. Broadcasting D. Flooding

The diagram below is a diagram use it to answer questions 8 & 9



- What is the name of the pest?  
A. Amouse C. Porcupine  
B. Arabit D. Wild pig
- How does the pest cause damage to cassava?  
A. Make tips turn brown  
B. Dig up mature tubers  
C. Make cassava lose leaves  
D. Cause cassava mosaic
- What is the advantage of using a ridger?  
A. It is used for all farm activities  
B. It is used on all classes of soil  
C. It is cheap  
D. It helps to ease work
- Why is a witch weed a serious weed in a maize garden?  
A. Transmits maize streak  
B. Cause low productivity  
C. Sucks nutrients from the roots of maize  
D. Causes rotting of the stalks
- It is important to add manure on hard soil in order to  
A. Make it difficult to break  
B. Make it hold more water  
C. Loosen the soil structure  
D. Make it lose water easily
- Which of the following nutrients is required by plants in small quantity  
A. Phosphorus C. Nitrogen  
B. Potassium D. Chlorine
- Why are farmers advised to improve local breeds of animals?  
A. To produce more as local breeds do  
B. To resist diseases and parasite attack  
C. To produce more than local breeds  
D. To withstand conditions like high temperature
- Which of the following crops is an arable crop?  
A. Coffee C. Maize  
B. Bananas D. Tea
- When is weeding using a slasher done in a

woodlot

- A. During the first two growing seasons
- B. After the two first growing seasons
- C. When grass is tall
- D. Before grass is tall

17. Which of the following farm tools is used to loosen soil in the garden

- A. A rake      C. Hand trowel
- B. Spade      D. Hand fork

18. The principle of comparative advantage helps to solve the problem of:

- A. Where to produce      C. When to sell
- B. How to produce      D. How much to produce

19. Which of the following could be the result of too much water in the soil?

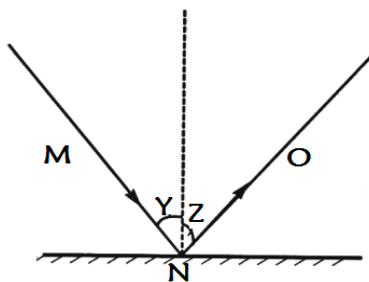
- A. Wilting of plants
- B. Increase of soil fertility
- C. Loss of top soil
- D. Poor aeration

20. Why is irrigation farming important in Malawi

- A. It reduces labour on a farm
- B. It reduces the use of inorganic fertilizer
- C. It protects the spread of diseases
- D. It allows a farmer to produce crops throughout the year

### SCIENCE AND TECHNOLOGY

Figure 3 is a diagram showing a ray of light reflection by a mirror, use it to answer questions 21 and 22 (std 7 book)



21. What is the name of the ray marked M?

- A. Reflected ray      C. Incident ray
- B. Reflected ray      D. Emergent ray

22. Find the angle marked Z if angle Y is  $50^\circ$

- A.  $90^\circ$       C.  $50^\circ$
- B.  $80^\circ$       D.  $40^\circ$

23. Which of the following is an advantage of preparing food by boiling?

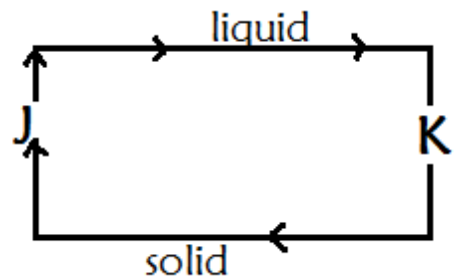
- A. It uses less fuel

B. Some vitamins can be lost

C. It requires little attention

D. Some foods may lose their flavor

Figure 4 is a diagram showing changes of states of matter. Use it to answer questions 24 and 25.



24. What process is represented by letter J

- A. Melting      C. Freezing
- B. Condensation      D. Evaporation

25. How would the change of state marked K be useful to people?

- A. Beer brewing      C. Food preservation
- B. Drying clothes      D. Rainfall formation

26. Which joint allows rotation of some parts of the body

- A. Kne joint      C. Elbow joint
- B. Skull joint      D. Shoulder joint

27. Which of the following is a balanced diet?

- A. Spinach, meat and bread
- B. Fish, cassava and beans
- C. Potatoes, pawpaw and Chinaka
- D. Nsima, ngumbi and eggs

28. How can water that has been infected with bilharzias be made safe for drinking?

- A. Boiling it      C. Sieving it
- B. Freezing it      D. Applying soda to it

29. Which of the following is a liquid part of blood?

- A. Red blood cells      C. White blood cells
- B. Plasma      D. Plateletes

30. Which of the following simple machines is a wedge?

- A. Ladder      C. Hammer
- B. Hoe      D. Crow bar

31. Which of the following substances would dissolve in paraffin?

- A. Salt      C. Chalkdust
- B. Fertilizer      D. Paint

32. Which part of an eye is used for controlling

- size of a pupil  
 A. Eyelids C. Iris  
 B. White part D. Retine
33. Which force causes the ball that is thrown upwards to return to the ground  
 A. Gravitational force C. Electric force  
 B. Magnetic force D. Frictional force
34. Why is the inner surface of a vacuum flask painted silver?  
 A. Reduce loss of heat through conduction  
 B. Reduce loss of heat through radiation  
 C. To emit more heat  
 D. To beautify the flask
35. What do insects benefit from flowers?  
 A. Nectar C. Scent  
 B. Colours D. Honey
36. Bleeding of gums is caused by lack of  
 A. Vitamin A C. Vitamin C

- B. Iron D. Iodised

37. Which of the following is a mineral stain?  
 A. Cocoa C. Soot  
 B. Ink D. Perspiration
38. Which of the following is a factor to be considered when costing toys?  
 A. Showcasing C. Attractiveness  
 B. Polishing D. Advertising
39. Which of the following foods can be preserved by sun drying?  
 A. Fruit juice C. Milk  
 B. Fruit D. Sausage
40. Soap is formed by chemical reaction of fat and \_\_\_\_\_  
 A. Crayons C. Caustic soda  
 B. Coloured dye D. Perfum

**SECTION B (60MARKS)**  
**AGRICULTURE**

41. A. Define soil fertility

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

B List any one characteristic of a fertile soil \_\_\_\_\_ (1mark)

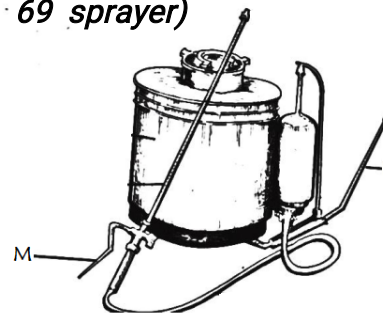
C Describe one way in which soil fertility can be improved \_\_\_\_\_ (1mark)

D Explain one way in which improving soil fertility is important \_\_\_\_\_ (1marks)

E Give any one ;  
 (i) Major plant nutrient \_\_\_\_\_ (1mark)

(ii) Minor plant nutrient \_\_\_\_\_ (1mark)

*Figure 5 is a diagram of a farm machinery (std 7 pg 69 sprayer)*



42. A. Name the farm machinery \_\_\_\_\_ (1mark)

B What is the function of parts labeled L and M  
 L \_\_\_\_\_ M \_\_\_\_\_ (2marks)

43. A. Arrange the following crops into food crops and cash crops. Millet, sunflower, tobacco and cassava

Food crops	Cash crops

(4marks)

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B State any two activities that are involved in farm business

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(2marks)

44. A. Why is agroforestry important? Give two reasons

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(2marks)

B Where should the following trees be planted in an agroforestry plot

(i) Trees that shade other crops

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(1mark)

(ii) Trees that add nutrients to the soil

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(1mark)

45. A. What are financial farm records?

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(2marks)

B Name any one physical farm records

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(1mark)

C Why do farmers keep farm records? Give two reasons

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(2marks)

46. A. Mention any one example of an indigenous fruit

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(1mark)

B State any two environmental conditions to consider when growing fruits

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(1mark)

C How can a farmer propagate apples

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(1mark)

D Which two vegetative parts can be used to raise fruit trees

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(2marks)

### PRIMARY SCIENCE

47. A. Construct a food chain : showing the food relationship among birds, grass and grasshopper (4marks)

B Write down one way of classifying animals

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(1mark)

48. A. Which two factors can be considered when planning a meal?

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(2marks)

B Give one reason why food is cooked?

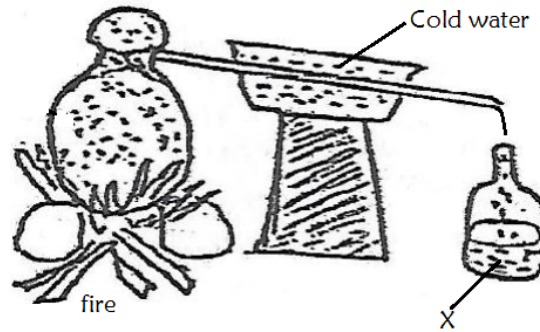
(i) \_\_\_\_\_ (1mark)

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

C. Give any two effects of over nutrition

\_\_\_\_\_ (2marks)

Figure 6 shows a method of separating a mixture. Use it to answer question 49 A and B



49. A. Name the liquid X \_\_\_\_\_ (1mark)

B Why is cold water put in a condenser? \_\_\_\_\_ (1mark)

C Explain how stirring affect the rate of solubility of suger in water

\_\_\_\_\_ (2marks)

D Give any one example of a solute \_\_\_\_\_ (1mark)

50. A. State any one sign and symptom of pregnancy \_\_\_\_\_ (1mark)

B Why should a diet of a pregnancy woman contain Iron? \_\_\_\_\_ (1mark)

C How does the unborn baby gets its food?

\_\_\_\_\_ (2marks)

D Give any one family planning method \_\_\_\_\_ (1mark)

Two tins A and B are filled with fertile soil. Tin A contains moist soil while tin B contains dry soil. Three seeds are sown in each tin. The tins are left to stand for a few days.

51. A. What problem is being investigated? \_\_\_\_\_ (1mark)

B In which tin will the seeds germinate? \_\_\_\_\_ (1mark)

C Name the part of a seed that contain food reserves which are used during seed germination \_\_\_\_\_ (1mark)

D Mention two parts of a seed that make an embryo of a seed

\_\_\_\_\_ (2marks)

Figure 7 is a diagram showing a child suffering from nutritional deficiency disease. Use it to answer question 52 A and B



52. A. Identify the disease \_\_\_\_\_ (1mark)

B How would you treat the child?

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

C Give any one way of preventing these diseases

(i) Goiter \_\_\_\_\_ (1mark)

(ii) Night blindness \_\_\_\_\_ (1mark)

**END OF QUESTIONS**