



EXAMINATION NO.: _____

THE BALAKA DISTRICT EXAMINATION BOARD
2023 PRIMARY SCHOOL LEAVING CERTIFICATE MOCK EXAMINATION
PRIMARY SCIENCE

(100 marks)

Subject Number: P163

Time allowed: 2 hrs

8:00am – 10: 00 am

Friday,

Name of Candidate: _____

(Surname First)

Name of School: _____

Instructions

- 1. This paper contains 9 printed pages. Please check.**
- 2. 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.**
- 3. Answer all questions.**
- 4. In the table provided on this page, tick against the question number you have answered.**
- 5. IMPORTANT**
 - Please make sure you have written your name, school name and Examination number on the question paper in the spaces provided.**
 - Hand in your question paper to the invigilator when the time is called to stop writing.**

Question Number	Tick Questions 41 – 52 if Answered	Do not write in these columns	
1 - 20			
21 - 40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			

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1. Which of the following is the recommended method of applying fertilizer in a rice field?
 - A. Banding C. Broadcasting
 - B. Foliar D. Dollop

Study the **figure 1** and use it to answer questions 2 and 3



2. Write the importance of the fruit product shown
 - A. Source of income after selling
 - B. Source of water
 - C. Source of fish
 - D. Source of rain

3. What raw materials can be used to produce the product?
 - A. Hot pepper C. Garlic
 - B. Sugarcane D. Tomato

4. How can the problems of marketing perishable products be solved?
 - i. Processing products
 - ii. Over producing the products
 - iii. Growing them near the market
 - iv. Over pricing the products.
 - A. i and iii C. i and ii
 - B. ii and iv D. iii and iv

5. Which of the following ways can improve soil fertility in the garden?

- A. Making compost manure
 - B. Making box ridges
 - C. Making contours ridges
 - D. Making ridges
-
6. How does deforestation affect fish farming?
 - A. Food for fish is scarce
 - B. Helps to keep moisture
 - C. Fish lacks protection against strong wind
 - D. Rivers dry up

 7. Which of the following characteristics is the best description of mlamba?
 - A. Favours fresh water.
 - B. Low survival rate
 - C. Resistance to handling stress
 - D. Breeding easily in ponds

 8. Which of the following farm animals are used as a source of power?
 - A. pigs C. rabbits
 - B. donkeys D. goats

 9. Why cassava chips should be kept dry and away from wet condition?
 - A. To improve its colour.
 - B. To be easy to use
 - C. To prevent them from being stolen.
 - D. To prevent them from developing moulds.

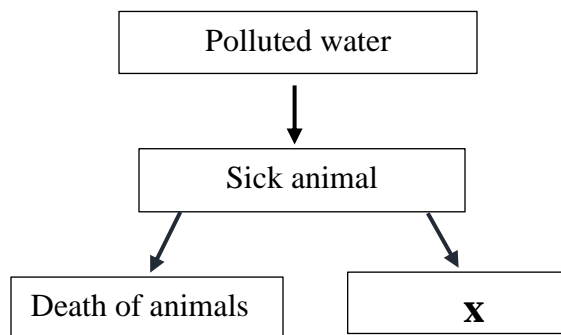
 10. Which of the following is the disadvantage of Arborloo toilet?
 - A. It is too expensive to build
 - B. Require a lot of land
 - C. Difficult to separate urine from

Continued/.....

- faeces.
 D. Negative attitude of people to handle manure.

11. Why should farmer transplant flower seedlings on a cool day?
 A. To reduce labour
 B. To control pest and diseases
 C. To carry flowers easily
 D. To prevent flowers from wilting

Figure 2 below is a diagram of a future's wheel. Study and use it to answer questions 12 and 13.



12. Complete the future's wheel in the part labelled **X**.
 A. More profits
 B. Low production
 C. High production
 D. Dipping
13. What will be the disadvantage of having sick animals to the farmer?
 A. Loss of income
 B. Cause drought
 C. High milk production
 D. More profits
14. Which of the following breeds of rabbit does not produce more off-springs?
 A. California black

- B. New-Zealand white
 C. Flemish Giant
 D. Local breed

15. A bag of fertilizer is indicated **NPK**. What does letter **P** stands for?
 A. Calcium C. Nitrogen
 B. Phosphorus D. Potassium
16. Which of the following trees can be used in an agroforestry plot?
 A. Blue gum C. Gmelina
 B. Leucaena D. Mangoes
17. Which part of a plough cuts the soil into their layers?
 A. Depth wheel C. Hake
 B. Hitch D. Share
18. Which of the following vegetables is a tuber?
 A. Beetroot C. Cucumber
 B. Cowpeas D. Cauliflower
19. Which way of improving soil fertility aims at leaving the land uncultivated for some time for bush to grow?
 A. Agroforestry
 B. Crop rotation
 C. Fallowing
 D. Mixed cropping
20. Which of the following cattle diseases can be controlled by quarantine?
 A. Tuberculosis
 B. East coast fever
 C. Sleeping sickness
 D. Foot and mouth disease

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21. Which of the following best describes the force exerted by the earth on an object?
- Frictional force
 - Potential force
 - Magnetic force
 - Gravitational force

Study **figure 3** below and answer questions **27** and **28**.

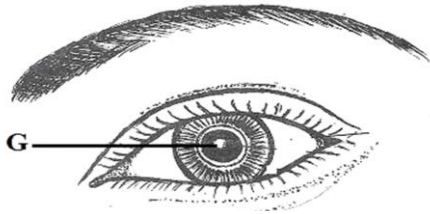


Figure 3

22. Identify the part marked **G**.
- Eye lashes
 - Pupil
 - Eye brows
 - Sclera
23. Which of the following is **not** protozoa?
- Amoebas
 - Molluscs
 - Trypanosome
 - Plasmodia
24. Dislocated joint is a joint where
- There is a clacking of bones
 - There is torn ligament
 - Bones have come out place
 - Bones broken
25. Which organ in the body stores excess food?
- Liver
 - C. Stomach
26. Which of the following is indirect source of light?
- Star
 - Moon
 - Fire
 - Bulb
27. Which of the following is a disease which is caused by lack of hygiene?
- Kwashiorkor
 - Cholera
 - Malaria
 - Syphilis
28. Which of the following is not a composition of blood?
- Plasma
 - Platelets
 - Veins
 - Red blood cells
29. Where does fertilization take place in a female person?
- Ovary
 - Fallopian tube
 - Cervix
 - Birth canal
30. Which of the following can conduct electricity?
- Sugar solution
 - Salt solution
 - Milk
 - Paraffin
31. Which of the following meals is suitable for sedentary workers?
- Mgaiwa nsima
 - Rice porridge
 - Tea with milk
 - Boiled nkhwani with ground nut flour
32. Which of the following methods of cooking reduces loss of food nutrients?
- Baking
 - Steaming
 - Frying
 - Boiling

Continued/.....

- 33. Define saturated solution
 - A. Solution of salt and water
 - B. When a solvent cannot dissolve more soluble solutes
 - C. When a solvent dissolves soluble solutes
 - D. Solution of sugar and water
- 34. Write example of vegetable stain
 - A. Blood C. Cocoa
 - B. Dyes D. Soot
- 35. Write one technology that uses reflection of light
 - A. Car mirror
 - B. Microscope
 - C. Telescope
 - D. Pair of binoculars
- 36. Write one disadvantages of modern technology to the youth
 - A. High cost
 - B. Exposure to pornographic movies
 - C. Increased risk of skin rashes
 - D. High school drop outs
- 37. How can you dispose wet refuse?
 - A. Collected into dust bins
 - B. Burning them
 - C. To be lead into a soak pit
 - D. Recycling
- 38. Which of the following problems of the human breathing system may be caused by covering one’s face with a plastic bag.
 - A. Chocking
 - B. Asthma
 - C. Smothering
 - D. Tuberculosis
- 39. Which of the following is a non-flowering plant?
 - A. Rice C. Tobacco
 - B. Pine D. Peas
- 40. The term “decoding” means
 - A. Imputing a message
 - B. Sending messages
 - C. Receiving information
 - D. Interpreting a message

SECTION B
AGRICULTURE

41. a. State any two ways in which water from wells could be made safe for drinking.

(2 marks)

b. Explain any two beneficial effects of micro-organisms in the production of crops.

(4 marks)

42. A farmer used K450,000. 00 in producing maize in a certain year. If he harvested 50 bags of maize each weighing 50 kilograms and sold 20 of them at K15,000.00 each and the rest at K20,000.00 each. Calculate his profit.

(4 marks)

43. During a visit to a livestock farm, learners observed the following signs on one of the animals; rapid breathing, diarrhea and swollen lymph glands.

a. Name the diseases the animal was suffering from.

_____ (1 mark)

b. State one way of controlling the disease.

_____ (1 mark)

c. State any three effects of the disease on animal production.

(3 marks)

44. a. Give any two reasons why “chilunguni” is suitable for fish farming in Malawi?

(2 marks)

b. Why are farmers encouraged to construct medium fish ponds?

(2 marks)

45. a. Define the term farm records.

_____ (2 marks)

b. State two ways in which records are important on a farm.

_____ (2 marks)

c. Name any two factors of production.

_____ (2 marks)

Figure 4. Below is a diagram showing an externa parasite of a goat. Use it to answer question 46.

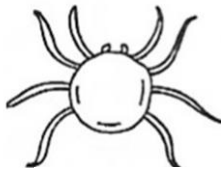


Figure 4

46. a. Identify the parasite

_____ (1 mark)

b. Explain any two effects of the parasite above to goats.

c. State any **two** ways of controlling the parasite.

(2 marks)

SCIENCE AND TECHNOLOGY

47. In the magnetic field explain what happens when

a. Like poles face each other

_____ (1 mark)

b. Unlike poles face each other

_____ (1 mark)

c. State two uses of force.

_____ (2 marks)

48. Explain how do the following animals protect themselves from danger.

a. A bee _____ (1 mark)

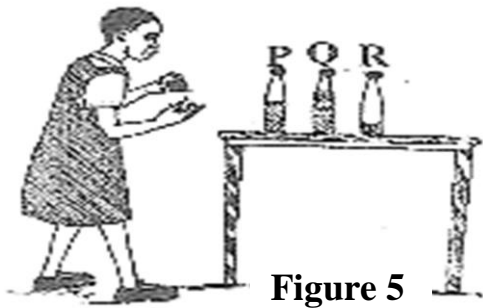
b. A chameleon _____ (1 mark)

c. A dog _____ (1 mark)

d. Mention two features that help a bird for movement.

 _____ (2 marks)

49. a. **Figure 5** is a diagram showing a student who is about to blow bottles labelled P, Q, R containing different columns of air. Use it to answer the questions that follow.



i. What is the aim of the experiment?
 _____ (1 mark)

ii. Which of the bottles will produce the **lowest** sound?
 _____ (1 mark)

iii. Give a reason why one of the bottles will produce the lowest sound?
 _____ (1 marks)

b. How do the following produce sound?
 A. Drum; _____ (1 mark)

B. Whistle; _____ (1 mark)

C. Guitar; _____ (1 mark)

50. a. Give **two** factors that affect the rate of solubility of substances.

 _____ (2 marks)

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b. State **two** effects of premarital sex.

(2 marks)

51. a. Give any **two** cultural practices that can lead to the spread of HIV.

(2 marks)

b. Explain **one** way in which HIV / AIDS has affected the provision of health services in Malawi

(2 marks)

c. List **two** ways on how one can prevent the contraction of HIV /AIDS

(2 marks)

52. a. Define bleach in laundry.

(1 mark)

b. Name **two** types of fabrics in which bleaches are used.

(2 marks)

c. State **two** ways of marketing toys.

(2 marks)

END OF QUESTION PAPER

NB: this paper contains 9 printed pages