



# MONJOLE COMMUNITY PRIMARY SCHOOL

## 2021/2021 PRIMARY SCHOOL LEAVING CERTIFICATE MOCK EXAMS

### PRIMARY SCIENCE

(100 MARKS)

SUBJECT NO: P163

TIME ALLOWED: 2 hours

08:30 – 10:30 am

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

(Surname first)

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

#### Instructions

1. This paper contains 7 pages please  
check

2. This paper has section A which  
consists of 40 Multiple choice and  
section B with 11 structured questions

3. Answer all question

4. Please make sure you have written your  
name and examination number and  
school name on the question paper in  
the spaces provided.

| Question number | Tick if 41 – 51 if answered | Do not write in these columns |  |
|-----------------|-----------------------------|-------------------------------|--|
| 1-10            |                             |                               |  |
| 11 – 20         |                             |                               |  |
| 21 – 30         |                             |                               |  |
| 31 – 41         |                             |                               |  |
| 42              |                             |                               |  |
| 43              |                             |                               |  |
| 44              |                             |                               |  |
| 45              |                             |                               |  |
| 46              |                             |                               |  |
| 47              |                             |                               |  |
| 48              |                             |                               |  |
| 49              |                             |                               |  |
| 50              |                             |                               |  |
| 51              |                             |                               |  |
| 52              |                             |                               |  |

**SECTION A: AGRICULTURE**

1. Why is mulching important in soil conservation
    - A. It helps to cover the plants
    - B. It speeds up the growth of plants
    - C. It helps to conserve moisture
    - D. Cassava and bananas
  2. Which of the following crops can be propagated by cuttings?
    - A. Bananas and sweet potatoes
    - B. Irish potatoes carrots
    - C. Cassava and sweet potatoes
    - D. Cassava and bananas
  3. A fish farmer noted that there was large amount of uneaten food in her pond. Why is this dangerous?
    - A. It causes parasites to multiply
    - B. It makes the pond to produce bad smell
    - C. It attracts fish predators
    - D. It results in lack of oxygen
- Figure 1 below shows one of the feeding habits of goats. Use it to answer questions 4 and 5



4. The feeding habit shown above is
  - A. Grazing
  - B. Browsing
  - C. Skirting
  - D. Drenching
5. The following are importance of goats except
  - A. Source of beef
  - B. Source of manure
  - C. Source of raw materials
  - D. Source of income
6. Which of the following statement best defines the term soil structure?
  - A. It is arrangement of the soil particles to form different shapes
  - B. It is the coarseness and fineness of the soil
  - C. It is the vertical section through the soil showing horizontal layer
  - D. It is the removal of top soil by the action of water and wind
7. Which of the following weeds is common in a maize field?
  - A. Kalisoga
  - B. Blackjack
  - C. Star grass
  - D. Witch weed
8. Which of the following record is a physical record?
  - A. Crop record
  - B. Labour record
  - C. Expenditure record
  - D. Field operations record

9. Which system of agro – forestry involves planting trees and shrubs along the boundaries of arable crops?
    - A. Fodder bank
    - B. Asley cropping
    - C. Live fence
    - D. Improved fallow
- Figure 2 is a farm machinery. Use it to answer questions 11 and 12.
10. What name is given to the farm machinery?
    - A. Plough
    - B. Disk plough
    - C. Ridger
    - D. Mouldboard
  11. What activity is being done in figure 2 above?
    - A. Spraying
    - B. Maintaining
    - C. Ploughing
    - D. Ridging
  12. Pruning is important in fruit tree because;
    - A. It improves quality and yield of fruits
    - B. It improves taste
    - C. It encourages death weeds in the orchard
    - D. Fruits become sour
  13. Why is sun drying important in fish?
    - A. Improve quality of fish
    - B. To share the fish easily
    - C. Help to reduce taste
    - D. Help to prevent fish from rotting
  14. Which of the following is the disadvantage of battery cage “cage”?
    - A. It requires less labour
    - B. It is expensive to buy the wire cage
    - C. It is easy to collect eggs
    - D. High production of meat, eggs and manure
  15. Which of the following are examples of indigenous trees?
    - A. Chitimbe and blue gum
    - B. India and pine
    - C. Cyprus and pine
    - D. Msangu and tsanya
  16. The following are problems of farm business except;
    - A. What to produce
    - B. Which to sell
    - C. How much to produce

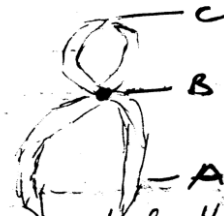
- D. Where to produce
17. Which of the following feeds are examples of concentrates?
- Maize bran and cotton seed cake
  - Maize meal and sorghum stalks
  - Meat meal and green grass
  - Elephant grass and maize stalks
18. The loss of water from soil and water into the atmosphere in form of vapour is called?
- Transpiration
  - Precipitation
  - Condensation
  - Evaporation
19. Which of the following crop belong to agronomy?
- Blue gum
  - Goats
  - Groundnuts
  - Oranges
20. Why is vegetative cover important in crop production?
- It provides firewood
  - It reduces pests
  - It provides timber
  - It conserves soil

### SCIENCE AND TECHNOLOGY

21. The term "Variable" in the scientific investigation means?
- Predicting the solution to problem
  - Collecting information
  - Things that can change
  - Writing a report of an investigation
22. Mention 2 effects of drug and substance abuse on the brain
- Mental disorder and intoxication
  - Poisoning and regular exercises
  - Eating good meals and injury
  - Death and stomachache
23. These are sense organs except
- Skin and nose
  - Eye and nose
  - Tongue and skin
  - Ear and leg
24. Which of the following is the problem of the tongue?
- Cold and flue
  - Sores
  - Nausea
  - Vomiting
25. Which of the following are uses of sound?
- For community
  - Change direction of objects
  - Show the height of objects
  - For travelling

26. Which of the following is the fluid releases by the gall bladder?
- Pancreatic juice
  - Urine
  - Bile
  - Gastric juice

Figure below is a diagram of a machine. Use it to answer questions 27 and 28



27. Name the parts labelled A and C
- Fulcrum and effort
  - Effort load
  - Load and fulcrum
  - Effort and scissors
28. Where is the fulcrum located in class one levers?
- After load and effort
  - At the load
  - At wedge
  - Between the load and effort
29. The following are characteristics of mammals, except
- Lay eggs
  - Breast feeding
  - They give birth
  - Reduce milk

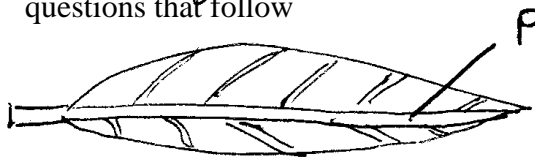
Study the figure below and use it to answer questions that follow;

30. Name the part labelled Y
- Micropyle
  - Seed coat
  - Hilum
  - Radical
31. Which of the following is responsible for the removal of carbon dioxide in the body?
- Lungs
  - Skin
  - Kidney
  - Liver
32. What name is given to animals that eat plants only?
- Carnivores
  - Herbivores
  - Omnivores
  - Invertebrates
33. The heart pumps blood to lungs through \_\_\_\_\_

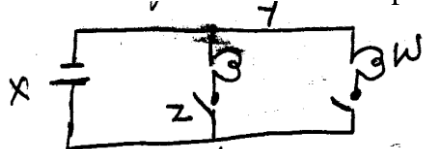
- A. Venacava
  - B. Aorta
  - C. Pulmonary artery
  - D. Pulmonary vein
34. What is obesity?
- A. It is the state of becoming excessively fat
  - B. It is the state of becoming excessively sick
  - C. It is the state of becoming excessively thin
  - D. It is the state of becoming excessively ill
35. Which of the following membranes protect the unborn baby?
- A. Ammonic membrane
  - B. Cervical membrane
  - C. Synovial membrane
  - D. Uterus membrane
36. Why are rollers used in inclined planes?
- A. To increase friction
  - B. To stop the object from moving
  - C. To obtain a higher mechanical advantage
  - D. To make the object move very slowly
37. The separation of liquid mixtures with components of different boiling points is called?
- A. Filtration
  - B. Evaporation
  - C. Decanting
  - D. Distillation
38. Define echo
- A. High pitched sound

- B. Vibrating sound
- C. Reflected sound
- D. Loud sound

Study the diagram in figure below and answer the questions that follow



39. Name the part labeled P
- A. Midrib
  - B. Apex
  - C. Leaf blade
  - D. Lamina
40. Describe the function of stomata in leaves
- A. To allow sunlight to enter the flowers
  - B. To manufacture food for the plant
  - C. Allow soil nutrients to get absorbed by the roots
  - D. To allow water and air pass in and out of the plant



41. Which letter represents a cell
- A. X
  - B. Z
  - C. W
  - D. Y

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

42. a) Give any two activities carried out during land preparation
- \_\_\_\_\_ (2 Marks)
- b) List down any two factors to consider when choosing a site for a fish pond
- \_\_\_\_\_ (2 Marks)
- c) Explain the following terms;
- i. Quarantine \_\_\_\_\_ (1 Mark)
  - ii. Transplanting \_\_\_\_\_ (1 Mark)
- d) What term is used to describe the act of putting live fish in a pond?
- \_\_\_\_\_ (1 Mark)
43. a) Arrange the following crops into food crops and cash crops; *Cotton, Cassava, Sunflower, Maize*
- |                   |                   |
|-------------------|-------------------|
| <b>Food crops</b> | <b>Cash crops</b> |
|-------------------|-------------------|
- (4 Marks)
- b) List down any two characteristics of exotic trees
- \_\_\_\_\_ (2 Marks)

c) Explain any one way in which trees reduce soil erosion

\_\_\_\_\_ (1 Mark)

Table 1 shows an example of physical farm record. Use it to answer question 44.

| CROP           | PLOT | HECTARE | YIELD (Kg/ha) |
|----------------|------|---------|---------------|
| Cassava        | 1    | 1       | 2500          |
| Maize          | 2    | 1       | 20000         |
| Sweet potatoes | 3    | 1       | 25000         |

44. a) Identify the physical farm record shown above

\_\_\_\_\_ (1 Mark)

b) Which crop had the highest yield

\_\_\_\_\_ (1 Mark)

c) Calculate the amount of money the farmer obtained if maize was sold at K40.00 per kilogram

(4 Marks)

45. a) Mention any one breed of rabbits

\_\_\_\_\_ (1 Mark)

b) Apart from coccidiosis add any one disease of rabbits

\_\_\_\_\_ (1 Mark)

c) Explain the term irrigation

\_\_\_\_\_ (1 Mark)

d) Why is irrigation important? Give two reasons

\_\_\_\_\_  
\_\_\_\_\_ (2 Marks)

46. a) Define fish farming

\_\_\_\_\_ (1 Mark)

b) What are two characteristics of fish species suitable for fish farming?

\_\_\_\_\_  
\_\_\_\_\_ (2 Marks)

c) Why is it important to improve soil fertility? Give any one reason

\_\_\_\_\_ (1 Mark)

d) List down any two activities that are involved in agroforestry management

\_\_\_\_\_  
\_\_\_\_\_ (2 Marks)

**SCIENCE AND TECHNOLOGY**

47. a) Define the term 'stain'

\_\_\_\_\_ (1 Mark)

b) Write down any two examples of mineral stain

\_\_\_\_\_  
\_\_\_\_\_ (2 Marks)

c) State any one property of the following

I. Sound \_\_\_\_\_ (1 Mark)

II. Light \_\_\_\_\_ (1 Mark)

d) Describe the use of the following technologies

(i) Projector \_\_\_\_\_ (1 Mark)

(ii) Periscope \_\_\_\_\_ (1 Mark)

Figure 7 below is a diagram of invertebrate. Use it to answer question 48.

48. a) To which group of invertebrates does the animal belong? \_\_\_\_\_ (1 Mark)
- b) Apart from the animal above. Mention any other two invertebrates which belong to the group that you mentioned in 48 (a) \_\_\_\_\_ (1 Mark)

c) What are the two disadvantages of the invertebrates  
\_\_\_\_\_  
\_\_\_\_\_ (2 Marks)

49. a) What is digestion?  
\_\_\_\_\_  
\_\_\_\_\_ (1 Mark)

b) Provide one function of each of the following parts of the human digestive system  
i. Colon \_\_\_\_\_ (1 Mark)  
ii. Gall bladder \_\_\_\_\_ (1 Mark)

c) Explain the difference between the following terms solute and solvent  
\_\_\_\_\_  
\_\_\_\_\_ (2 Marks)

50. a) List down any two main processes in Laundry  
\_\_\_\_\_  
\_\_\_\_\_ (2 Marks)

b) Give any two types of fabrics in which bleaches are used?  
\_\_\_\_\_  
\_\_\_\_\_ (2 Marks)

Figure below shows a diagram of a technology. Use it to answer question 51

51. a) Name the technology shown above  
\_\_\_\_\_ (1 Mark)
- b) Explain the use of the technology  
\_\_\_\_\_  
\_\_\_\_\_ (1 Mark)

c) Provide any one disadvantages of the technology above  
\_\_\_\_\_ (1 Mark)

52. a) Explain any two effects of food taboos and beliefs  
\_\_\_\_\_  
\_\_\_\_\_ (2 Marks)

b) Describe any two good eating habits  
\_\_\_\_\_  
\_\_\_\_\_ (2 Marks)

c) Give any one example of the food nutrients  
\_\_\_\_\_ (1 Mark)

**END OF QUESTION PAPER!!**