SHARPEVALE ZONE EXAMINATIONS BOARD

2020 PRIMARY SCHOOL LEAVING CERTIFICATE MOCK EXAMINATION

PRIMARY SCIENCES

(100 Marks)

Subject Number: P163

Friday, 14th February 2020

Time allowed: 2hrs
8:00 – 10:00am

Name of Candidate: _____
(*Surname First*)

Name of School: _____

Instructions:

1. This paper contains **7** printed pages. Please check

2. Write your name and name of your school in the spaces provided above and on top of each page of the question paper.

3. 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 11 Structured questions. Write your answers to this section on the question paper in the spaces provided. The maximum number of marks for each answer is indicated against the question.

4. Answer **all** questions.

5. In the table provided on this page, tick against the question number you have answered.

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

Name of Candidate: ……………………………………………… **School:** ……………………………………

AGRICULTURE

1. To which of the following sub-branches of Agriculture does production of trees belong?
   A. Olericulture
   B. Silviculture
   C. Arboriculture
   D. Agronomy

2. Which of the following is the importance of keeping farm records?
   A. Making important decisions
   B. Helps institutions to borrow from farmers
   C. Leads to diseases in case of animals production
   D. fail to budget and plan

3. Name any one example of physical farm records
   A. Sales records
   B. Expenditure records
   C. Labour records
   D. Records of produce

4. Which of the following are example of marketing functions
   A. Grading and processing
   B. Grading and eating
   C. processing and capital
   D. Land and Management

5. A combination of different species on a plot that support each other is called
   A. Guild
   B. Permaculture
   C. Agro ferestry
   D. Silviculture

6. Which of the following crops would require flood irrigation
   A. Cassava
   B. Rice
   C. Maize
   D. Tobacco

Figure 1 is diagram of an indigenous farm machinery and technology. Use it to answer questions 7 and 8.
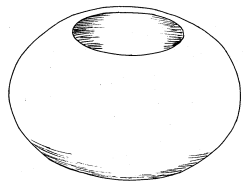
7. Identify the machinery
   A. Leaf bag
   B. Winnower
   C. querns
   D. Gourd

8. Which of the following is the use of the machinery
   A. For size reduction
   B. Controlling red ants
   C. For storing seeds
   D. Controlling weevils

9. Why should seedlings be transplanted late in the afternoon?
   A. To avoid lodging
   B. To avoid wilting
   C. To control pest and diseases
   D. To reduce labour

Figure 2 is a diagram showing one of the marketing functions. Use it to answer questions 10 and 11

10. What marketing functions is involved here.
    A. Buying
    B. Advertising
    C. Transporting
    D. Processing

11. What is the advantage of the marketing function
    A. It increases sales
    B. keeps the produce safe
    C. It helps in pricing
    D. It helps in grading

12. What name is given to female rabbits
    A. Bucks
   B. Does
    C. Weaners
    D. Hutches

13. Which system of agro forestry involves planting trees and shrubs along the boundaries of arable crops
A. Improved furrows   B. Folder banks
C. Alley cropping   D. Live Fence

14. How can water be managed as a major element of agriculture
A. Filling the land   B. Growing legumes
C. Mulching the crops D. Applying fertilizer

15. Which method of applying fertilizer is recommended for fruit trees
A. dollop method   B. Banding
C. Broadcasting   D. Foliar

16. Which of the following is not a method of controlling diseases in animals
A. Spraying   B. Quarantine
C. Control of vector   D. Vaccination

17. Why should farm tools be stored in a dry place?
A. to prevent them from getting wet
B. Prevent them from rusting
C. Prevent them from being broken
D. To increase their sharpness

18. What is the recommended feed given to fish in a pond weighing 100 kg's
A. 100 kg per day   B. 20 kg per day
C. 5 kg per day   D. 2.5 kg per day

19. Which of the following is an effect of cutting down trees carelessly
A. Deforestation   B. Afforestation
C. Reafforestation   D. Agro forestry

20. Weight lost from a lamp of soil after heating shows that soil contains
A. Air   B. Clay
C. Sand   D. Water

SCIENCE AND TECHNOLOGY

21. Which of the following is the function of the human skeleton
A. Holding the skin
B. Controlling sense organs
C. Giving shapes to the body
D. Manufacturing nutrients

22. The following are stages of scientific investigation except
A. Knowing the problem
B. Making a prediction
C. Planning the investigation
D. Hypothesis

23. Which of the following indigenous technologies is used for hunting?
A. Bow and arrow   B. Winnower
C. Fish trap   D. Grinding stone

24. Which of the following methods could be used to separate a mixture of sand and small pieces of steel
A. Filtration   B. Distillation
C. Magnetism   D. Evaporation

25. Which of the following is the skin disease?
A. Malaria   B. Ring worm
C. Tuberculosis   D. HIV and AIDS

Figure 3 shows a fruit that can be dispersed. Use it to answer questions 26 and 27.
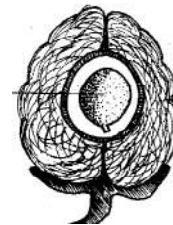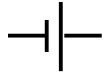

26. Identify the fruit.
A. Coconut   B. Mango
C. Tomato   D. Orange

27. The fruit can be dispersed by _____
A. Animals   B. Water
C. Air   D. Explosive mechanism

28. Complete the following chain
Green grass $\longrightarrow$ x $\longrightarrow$ Bird $\longrightarrow$ Snake
A. Lion   B. Leopard
C. Fish   D. Grasshopper

29. Making food palatable means _____

A. Preserving the food

B. Killing germs of the food

C. Improving taste of the food

D. Improving softness of the food

30. Identify the way of caring for the digestive system

A. Resting after taking meals

B. Taking hot foods

C. Eating too fast

D. Eating too much

31. Which of the following is the use of an open air kitchen

A. For preserving food

B. For boiling water

C. For grading food

D. For cooking fast

Figure 4 shows external parts of a fish. Use it to answer questions 32 and 33
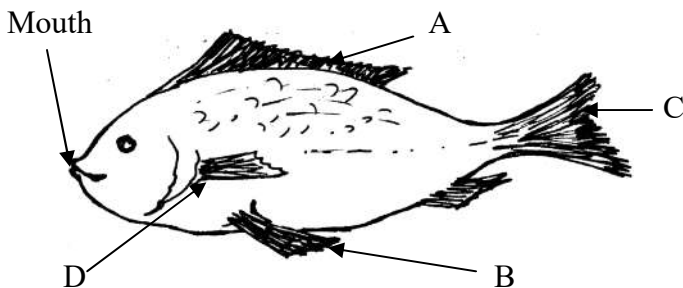
32. Identify the part labeled B

A. Tail fin   B. Mouth

C. Pectoral fin   D. Pelvic fin

33. Which of the following nutrients can be obtained from it?

A. proteins   B. carbohydrates

C. water   D. liquids

34. The following are reasons for cooking food except?

A. Preserving it

B. To waste it

C. making food more digestive

D. Making it taste good

35. How many days does it take for the embryo to reach uterus, to which it is attached

A. 6   B. 7

C. 5   D. 8

36. Which of the following is the last procedure in laundering table linen

A. Sorting   B. Soak in cold water

C. Drying   D. Fold and store

37. Identify the symbol —|⊢

A Cell   B. Switch

C. Bulb   D. Fuse

38. Which of the following diseases is associated with HIV and AIDS?

A. Malaria   B. T.B

C. Headache   D. Goiter

39. Which of the following is the Negative effect of heat energy?

A. Cooking   B. Drowning

C. Burns   D. Hatching egg

40. Which of the following sense organs is used for tasting?

A. Ear   B. Eye

C. Tongue   D. Skin

SECTION B (60 Marks)

Answer all the questions in this section. Use the space provided to fill your answer

AGRICULTURE

41. A. What is the different between trimming and pruning?   (2 marks)

_____

_____

B. List down any two factors to consider when grading farm produce (2 marks)

_____

_____

C. Classify the following into exotic and indigenous fruits: **Mangoes, Baobab, Oranges, Mateme**

(4 marks)

Exotic Fruits	Indigenous Fruits

42. A. What are risks? (1 mark)

_____

_____

B. Explain how the following risks affect farm business
(I). Pest and diseases (2 marks)

_____

_____

(II). Fire (2 marks)

_____

_____

C. State any two ways of coping with risks in a farm business (2 marks)

_____

_____

43. **Figure 5** shows a farm tool

A. Identify the farm tool (1 mark)

_____

B. Give any two agricultural uses of the farm tool (2 marks)

_____

C. Mention two systems of keeping chickens (2 marks)

_____

44. A. Explain how clouds are formed (2 marks)

_____

B. Give any two effects of water pollution on agricultural production (2 marks)

_____

_____

C. Give any two ways of controlling bacterial blight in cassava (2 marks)

_____

_____

45. A. What are crop husbandry practices? (1 mark)

_____

B. List down any two importance of early land preparation (2 marks)

_____

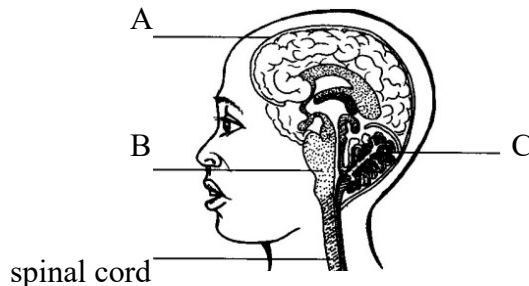C. Explain source of income as an importance of cattle (1 mark)

_____

_____

SCIENCE AND TECHNOLOGY

46. A. Give any two problems of food preservation (2 marks)

_____

B. What are Nutritional deficiency diseases? (1 mark)

_____

C. Give any two examples of body building foods (2 marks)

_____

_____

47. Figure 6 shows the human brain. Use it to answer questions 47a and b.

A. Name the part labeled B (1 mark)

_____

B. What is the function of the part labeled C? (1 mark)

_____

C. Give any two ways of caring for the brain (2 marks)

_____

_____

48. A. State any two factors to consider when planning meals (2 marks)

_____

_____

B. Give the functions of the following composition of blood

(I). Plasma: (1 mark)

_____

(II). Platelets: (1 mark)

_____

C. Mention any two ways through which HIV is transmitted (2 marks)

_____

_____

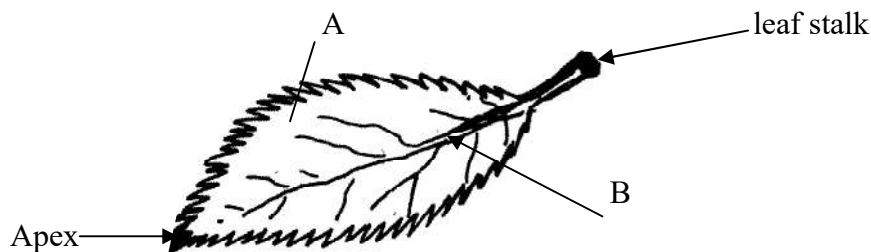49.   A. Explain sweeping as a way of cleaning a home (2 marks)

_____

_____

B. Give the solution to each of the following marketing problems

(I). High transport cost (1 mark)

_____

(II). Harsh weather conditions (1 mark)

_____

C. Mention any two types of stems (2 marks)

_____

_____

50.   **Figure 7** is a leaf. Use it to answer the questions that follow.

A. Name the parts labeled A and B (2 marks)

_____

_____

B. State the function of the leaf (1 mark)

_____

_____

C. List down any two conditions for seed germinations (2 marks)

_____

_____

51.   A. List any two uses of matter (2 marks)

_____

_____

B. Give any two forms of communication (2 marks)

_____

_____

END OF QUESTIONS