

LILONGWE CITY MOCK EXAMINATION

2021 PRIMARY SCHOOL LEAVING CERTIFICATE MOCK EXAMINATION

PRIMARY SCIENCE (100 Marks)

Subject Number: P163

Time allowed: 2hrs
8:00 – 10:00 am

Date:/...../.....

Name of candidate: _____
(Surname first)

Name of school: _____

Instructions

1. This paper contains **8pages**. 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. Write your answers to this section on the question paper in a paper 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.

| Question Number | Tick question number you have answered | Do not write in these columns | |
|-----------------|--|-------------------------------|--|
| 1 – 40 | | | |
| 41 | | | |
| 42 | | | |
| 43 | | | |
| 44 | | | |
| 45 | | | |
| 46 | | | |
| 47 | | | |
| 48 | | | |
| 49 | | | |
| 50 | | | |
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IMPORTANT

- Make sure you have written your **name, school name** on the question paper in the spaces provided.
- Please hand in your filled-in question paper to the invigilator at the end of the examination.

SECTION A (40MARKS)**AGRICULTURE**

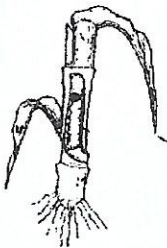
1. To which sub – branch of agriculture does the growing of trees only belong?

- A. Silviculture
- B. Olericulture
- C. Pomoculture
- D. Horticulture

2. Which of the following is an aim of Agriculture as a business?

- A. Maximum profits
- B. Production is mainly for cash
- C. Involves high level of inputs
- D. Crops are grown on large areas

Figure 1 is a diagram of a crop attacked by pest. Use it to answer questions 3 and 4



3. Name the pest

- A. Locust
- B. Weevil
- C. Army worm
- D. Stalk borer

4. Which part of the crop is attacked by the pest

- A. Stalk
- B. Root
- C. Grain
- D. Leaf

5. Why should farmers sell their crops when they are scarce?

- A. To prevent them from thieves
- B. To make them available to everyone
- C. To make profit
- D. To avoid hunger

6. Which of the following is the way of controlling witch weed?

- A. Early planting

B. Uprooting

C. Early weeding

D. Crop production

Fig 2 is a diagram use it to answer question



7. Which element of agriculture environment is shown above

- A. Animal
- B. Plants
- C. Wind
- D. Soil

8. Which of the following is the effect of cultivating along the river banks?

- A. Controlling floods
- B. Reducing soil erosion
- C. Controlling run – off
- D. Washing away of ridges

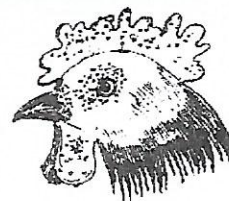
9. Which of the following activities is not a marketing function

- A. Buying
- B. Grading
- C. Storage
- D. Bargaining

10. Which of the following is a variety of cassava

- A. Malimba
- B. Kakoma
- C. Baka
- D. Manyokola

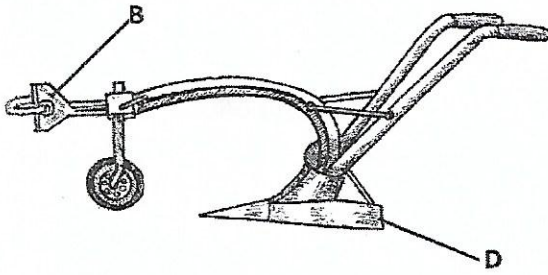
Figure 3 is a diagram showing chicken disease use it to answer question 11



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- 11. Identify the disease above
 - A. New castle
 - B. Coccidiosis
 - C. Coughs and sneezing
 - D. Fowl pox
- 12. How can the disease above be prevented?
 - A. Dipping
 - B. Drenching
 - C. Vaccination
 - D. Hand picking
- 13. Why is pruning important in fruit trees?
 - A. It improves the growth of the trees
 - B. It controls the growth of weeds
 - C. It improves the quantity and yield
 - D. It reduces competition of food
- 14. Which of the following factors should be considered when choosing a site for vegetable garden
 - A. Slope of the land
 - B. Price of vegetables
 - C. Water supply
 - D. Size of seeds
- 15. Evapotranspiration is the loss of water from _____?
 - A. Water bodies and plants
 - B. Plants
 - C. Water bodies
 - D. The lake

Figure 4 shows a farm machinery use it to answer question 16 and 17



- 16. Name the farm machinery
 - A. Wheel barrow
 - B. Ridger
 - C. Plough
 - D. Sprayer

- 17. Which of the following is the source of power used to pull the machinery above
 - A. Heading
 - B. Oxen
 - C. Pushing
 - D. Wheel barrow
- 18. Which of the following is a way of improving indigenous trees
 - A. Grow fast
 - B. They are soft
 - C. Prunning
 - D. Late maturity
- 19. Why planting cuttings should be planted an angle or a slanting manner.
 - A. To maximize the use of land
 - B. To allow water to settle down the planting material
 - C. To prevent damping off and leaching
 - D. To avoid destroying the planting material
- 20. How can irrigation improve agriculture production
 - A. It help farmers to grow many crops
 - B. It helps farmers to grow crops several times a year
 - C. It helps farmers to have many plots
 - D. It helps farmers to weed crops early

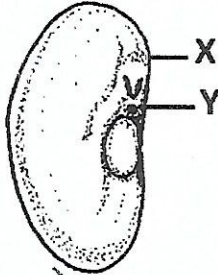
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- 21. In which stage in hypothesis tested
 - A. Concluding stage
 - B. Implementation stage
 - C. Planting stage
 - D. Prediction stage
- 22. Which method of cooking food requires pre-heating an oven
 - A. Baking
 - B. Boiling
 - C. Roasting
 - D. Steaming
- 23. Where does the unborn baby get food substances from the mother
 - A. Umbilical cord

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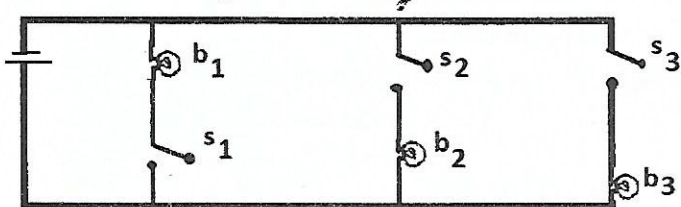
- B. Fallopian tube
- C. Ovary
- D. Omnion

Figure 5 is a diagram of a bean seed. Use to answer questions 24 and 25



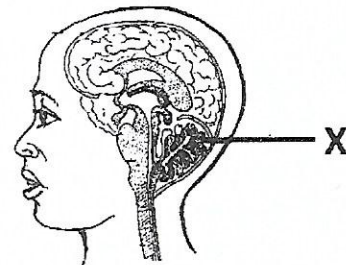
- 24. Name the part labeled X
 - A. Scar
 - B. Plumule
 - C. Radical
 - D. Seed coat
- 25. Which of the following is the function of the part labeled Y
 - A. Attachment to the pond
 - B. Protects the inner part of the seed
 - C. Develops into seeds
 - D. Allows air and water to enter the seeds
- 26. Which of the following food is suitable for a strict vegetarians
 - A. Yoghurt
 - B. Cheese
 - C. Cabbage
 - D. Fish
- 27. Which of the following is a nutritional deficiency disease?
 - A. Marasmus
 - B. Malaria
 - C. Tuberculosis
 - D. Diarrhoea

Figure 6 is a diagram showing a circuit uses it to answer question 28 and 29



- 28. Identify the type of circuit
 - A. Double circuit
 - B. Series circuit
 - C. Parallel circuit
 - D. Single circuit
- 29. If S₃ is open bulb 3 will not give light. Give a reason for not producing light
 - A. Because they are using one cell
 - B. Because the circuit is not connected
 - C. Because it is not well connected
 - D. Because bulb P is not the end of the circuit
- 30. The union of male and female gametes is called ____
 - A. Zygote
 - B. Embryo
 - C. Conception
 - D. Uterus

Figure 7 shows the human brain use it to answer question 31 and 32



- 31. Identify the part labeled X
 - A. Spinal cord
 - B. Cerebellum
 - C. Cerebrum
 - D. Medulla oblongata
- 32. The following are the functions of Medulla oblongata except
 - A. Digestion
 - B. Breathing
 - C. Regulates heart beat
 - D. For thinking
- 33. Who are sedentary workers
 - A. Workers who do not need supervision
 - B. Workers involved in heavy work
 - C. Workers not involved in heavy work
 - D. Lazy workers

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34. Which of the following mixtures can be separated by decanting
- A. Iron filling and sand
 - B. Salt and water
 - C. Water and paraffin
 - D. Beans and sand
35. Which of the following is the treatment of night blindness
- A. Using of iodized salt
 - B. Provision of vitamin B
 - C. Provision of vitamin C
 - D. Provision of food rich in vitamin A
36. Which of the following is a by – product of photosynthesis
- A. Sunlight
 - B. Oxygen
 - C. Carbon dioxide
 - D. Water
37. Which of the following groups of animals are omnivores
- A. People and chicken
 - B. Pigs and lions
 - C. Cattle and goats
 - D. Eagle and sheep
38. The following is a problem of a catapult
- A. Kills animals fast
 - B. Difficult to target
 - C. Easy to carry
 - D. Expensive to buy
39. Identify one factor to consider when planning meals
- A. The ditches
 - B. The samples
 - C. The season of the year
 - D. Food eaten at once
40. What do you call anything that had a mass and occupies space
- A. Power
 - B. Gas
 - C. Matter
 - D. Substance

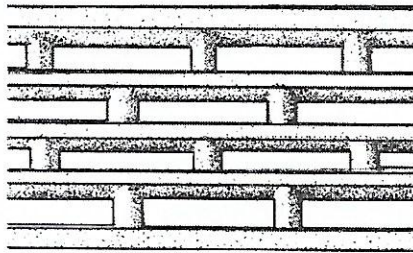
SECTION B (60MARKS)

AGRICULTURE

41. (a) Give two sub – branches of agriculture under crop husbandry
- i. _____ 1 mark
 - ii. _____ 1 mark
- (b) Mention any two ways of harvesting maize
- i. _____ 1 mark
 - ii. _____ 1 mark
- (c) List down two characteristics of substances farming
- i. _____ 1 mark
 - ii. _____ 1 mark
42. (a) Define the term farm records
- _____ 1 mark
- (b) State any two ways in which records are important on a farm
- i. _____ 1 mark
 - ii. _____ 1 mark
- (c) Give any three uses of water in livestock production
- i. _____ 1 mark
 - ii. _____ 1 mark
 - iii. _____ 1 mark

43. (a) Mention any two methods of processing cassava
- i. _____ 1 mark
 - ii. _____ 1 mark
- (b) Explain the importance of fermentation in cassava
- _____ 2marks
- (c) List down three types of irrigation
- i. _____ 1 mark
 - ii. _____ 1 mark
 - iii. _____ 1 mark

Figure 8 shows one of the soil erosion conservation measures. Use it to answer questions below



44. (a) Name the conservation _____ 1 mark
- (b) Explain the two importance of conservation measure in question 44a
- i. _____ 1 mark
 - ii. _____ 1 mark
- (c) List only one crop husbandry practice _____ 1 mark
45. (a) Give any two methods of fruit propagation
- i. _____ 1 mark
 - ii. _____ 1 mark
- (b) Define exotic fruits _____ 1 mark
- (c) Give two ways of improving local goats
- i. _____ 1 mark
 - ii. _____ 1 mark
- (d) State any two cultural practices followed when establishing agroforestry plot
- i. _____ 1 mark
 - ii. _____ 1 mark

SCIENCE AND TECHNOLOGY

46. (a) Give two examples of nutritional deficiency diseases
- i. _____ 1 mark
 - ii. _____ 1 mark
- (b) State any two signs and symptoms of marasmus
- i. _____ 1 mark
 - ii. _____ 1 mark

(c) Mention any two modern food preservation technologies

- i. _____ 1 mark
- ii. _____ 1 mark

47. (a) Classify the following plants into flowering and non – flowering plants

Beans, mangoes, fungi, tomatoes

Flowering plants

Non Flowering

| | |
|--|--|
| | |
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| | |

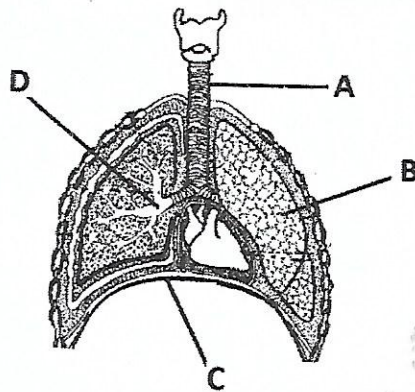
(b) Mention two problems of digestive system

- i. _____ 1 mark
- ii. _____ 1 mark

(c) Mention one way of caring digestive system

_____ 1 mark

Figure 9 is a diagram showing human breathing system use it to answer questions



48. (a) Name the parts labeled A and D

- A. _____ 1 mark
- D. _____ 1 mark

(b) What happens to the part labeled C during inspiration

_____ 2marks

(c) Define smothering

_____ 1 mark

(d) List down two problems of breathing

- i. _____ 1 mark
- ii. _____ 1 mark

49. (a) Mention any two properties of light

- i. _____ 1 mark
- ii. _____ 1 mark

(b) Mention one use of each of the following technologies of light

i. Mirror glass

_____ 1 mark

ii. Microscope

_____ 1 mark

50. (a) Define stain

_____ 1 mark

(b) List down any two types of stains

i. _____

1 mark

ii. _____

1 mark

(c) What is a machine?

_____ 1 mark

(d) Give any two types of pulleys

i. _____

1 mark

ii. _____

1 mark

END OF QUESTION PAPER