

EXAMINATION NO.: _____

THE ALBRIMAS EXAMINATIONS BOARD

2024 PRIMARY SCHOOL LEAVING CERTIFICATE 1ST MOCK EXAMINATION



PRIMARY SCIENCES

(100 marks)



Subject Number: P163

Time Allowed: 2 hours

Friday, 16 February

7:00 – 9:00 am

Name of Candidate: _____

(Surname First)

Name of School: _____

Instructions

1. This paper contains 13 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. Section B consists of 12 structured questions and the maximum number of marks for each answer is indicated against the question.
3. Answer **all** questions.
4. Please make sure you have written your **name, examination number and school name** on the question paper in the spaces provided.
5. In the table provided on this page, tick against the question number you have answered.
6. Hand in your question paper to the invigilator when 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			

Turn over



Section A (40 marks)

Encircle the letter representing the right answer to each question in this section.

AGRICULTURE

1. Which part of a farm-cart requires frequent greasing?
A. steering
B. bearing
C. cart body
D. yoke
2. Which of the following is a symptom of coccidiosis in rabbits?
A. bad sneezing
B. lack of appetite
C. sores on feet
D. blisters on skin
3. Which of the following characteristics ensures the harvesting of fish within a short period of time?
A. have eggs
B. easy to handle
C. grow fast
D. resistant to diseases
4. Identify the pest.
A. weevil
B. army worm
C. locust
D. stalk borer
5. Which part of the crop is attacked by the pest?
A. grain
B. leaf
C. stalk
D. root
6. Which of the following activities takes place during land preparation?
A. ploughing
B. weeding
C. banding
D. thinning
7. To which sub-branch of agriculture does the growing of both fruits and vegetables belong?
A. olericulture
B. pomoculture
C. floriculture
D. horticulture

Figure 1 is a diagram of a crop attacked by a pest. Use it to answer Questions 4 and 5.



Figure 1

Figure 2 is a diagram showing a method of fruit propagation. Use it to answer **Questions 8 and 9**.

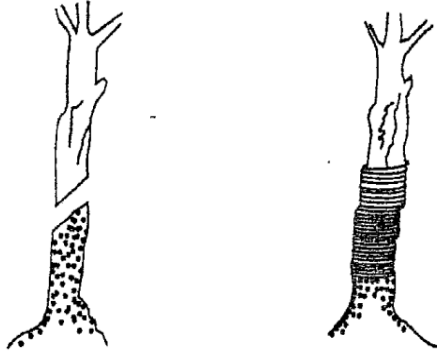


Figure 2

8. Identify the method of fruit propagation.
 - A. grafting
 - B. budding
 - C. suckers
 - D. cuttings
9. Which of the following fruits can be propagated by the method?
 - A. bananas
 - B. pineapples
 - C. granadillas
 - D. avocado pears
10. Why is it important to water vegetables in field beds?
 - A. to reduce weed growth
 - B. to dissolve soil nutrients
 - C. to reduce spread of diseases
 - D. to control soil pests

11. Which of the following is a characteristic of a good cock for breeding?
 - A. roomy body
 - B. strong legs
 - C. bright eyes
 - D. moist vent

Figure 3 is a diagram of an indigenous farm technology. Use it to answer questions **12 and 13**.



Figure 3

12. Identify the indigenous farm technology.
 - A. quern
 - B. leaf bag
 - C. winnower
 - D. gourd
13. Which of the following is the use of the indigenous farm technology?
 - A. storing dried seeds
 - B. storing dried vegetables
 - C. separating mixtures
 - D. cooking food
14. What is the use of the dazzle boom of a farm cart?
 - A. supports the farm cart body
 - B. helps the farm cart to move
 - C. holds all parts of the farm cart
 - D. connects the necks of animals

15. Foot and mouth disease in cattle is controlled by _____.
A. regular dipping
B. controlling tsetse flies
C. regular vaccination
D. killing the animals
16. Which of the following is a **minor** plant nutrient?
A. potassium
B. chlorine
C. nitrogen
D. phosphorus
17. Why is sun drying of fish important to a farmer?
A. to sell the fish quickly
B. to cook the fish easily
C. to share the fish easily
D. to improve quality of the fish
18. Which of the following is the effect of siltation in the garden?
A. blocks irrigation pipes
B. increases evaporation
C. reduces diseases
D. pollutes top soil

Figure 4 is a diagram showing learners managing a woodlot. Use it to answer **Questions 19** and **20**.



Figure 4

19. Which of the following management activities is being done by the learners?
A. clearing the land
B. making a fire break
C. planting trees
D. weeding a woodlot
20. The management activity helps to
A. protect trees from pests
B. increase number of trees
C. control soil erosion
D. protect trees from fire

SCIENCE AND TECHNOLOGY

21. What name is given to the part of the eye that controls the size of the pupil?
- A. cornea
 - B. sclera
 - C. retina
 - D. iris
22. Food rich in fibre should be included in the diet in order to
- A. strengthen the teeth
 - B. prevent anaemia
 - C. help in digestion
 - D. allow clotting of blood
23. Rollers are used in inclined planes to
- A. avoid damaging the plane from objects
 - B. prevent the plane from breaking
 - C. pull the object
 - D. reduce friction

Figure 5 is a diagram a ray of light passing through a block of glass. Use it to answer **Questions 24** and **25**.

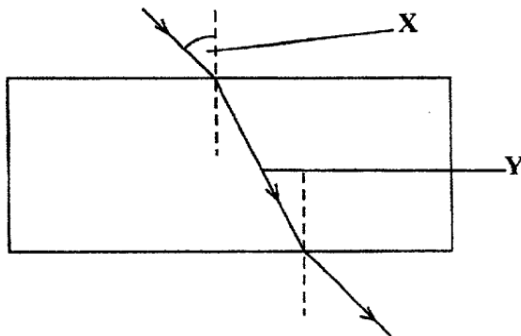


Figure 5

24. What is the name of the ray of light marked **Y**?
- A. reflected ray
 - B. normal ray
 - C. incident ray
 - D. refracted ray
25. What is the name of the angle marked **X**?
- A. angle of refraction
 - B. angle of incidence
 - C. normal angle
 - D. angle of reflection
26. The liquid that contains sperm is
- A. zygote
 - B. fluid
 - C. amnion
 - D. semen
27. Which of the following liquids can dissolve in Vaseline?
- A. water
 - B. paraffin
 - C. milk
 - D. orange juice
28. Why is it advisable to wash fruits before eating?
- A. to improve quality
 - B. to prevent germs
 - C. to improve taste
 - D. to improve flavour

29. Which of the following is a sign of scurvy?

- A. slow growth
- B. rough skin
- C. soft bones
- D. pale hands

30. Which of the following insects undergo complete metamorphosis?

- A. grasshopper
- B. bugs
- C. housefly
- D. cockroach

31. Which of the following parts of the body stores excess food?

- A. stomach
- B. liver
- C. kidney
- D. intestines

32. The energy which an object acquires if it is raised above the ground is called?

- A. kinetic
- B. chemical
- C. potential
- D. electrical

33. Which one of the following is an example of animal stain?

- A. perspiration
- B. cocoa
- C. rust
- D. wax

34. Blood in veins is dark red in colour because it has _____.

- A. less oxygen
- B. more oxygen
- C. more nutrients
- D. less nutrients

35. Which of the following foods can be preserved by both salting and drying methods?

- A. beans
- B. fish
- C. maize
- D. milk

During an experiment on conditions necessary for seed germination, Zwelithini put bean seeds in two transparent containers and covered them with soaked cotton. Container A was put in a refrigerator while container B was not. Use this information to answer **Questions 36 and 37.**

36. What condition for seed germination was being investigated?

- A. air
- B. soil
- C. warmth
- D. moisture

37. What would be the results of the experiment after five days?

- A. seeds in container A only will germinate
- B. seeds in all the containers will germinate
- C. seeds in all the containers not will germinate
- D. seeds in container B only will germinate

38. The problem in which a patient has difficulties in emptying bowels and uses increased effort to remove hard faeces is called _____.

- A. constipation
- B. intestinal ulcers
- C. intestinal parasites
- D. haemorrhoids



Figure 6 is a diagram of a child suffering from a nutritional deficiency disease. Use it to answer **Questions 39 and 40**.



Figure 6

- 39.** Identify the nutritional deficiency disease.
- A. kwashiorkor
 - B. anaemia
 - C. rickets
 - D. marasmus
- 40.** Which of the following is a sign of the nutritional deficiency disease?
- A. good appetite
 - B. looking alert
 - C. protruding abdomen
 - D. wrinkled skin

Section B (60 marks)

Write your answers to this section on the question paper in the spaces provided.

AGRICULTURE

- 41.** a. Give any **two** reasons why soil should contain humus in crop production.

(2 marks)

- b. Give any **two** ways in which permaculture helps in improving soil fertility.

(2 marks)

42. a. Define the term “farming calendar.”

(1 mark)

- b. Why is farming calendar different from one area to another? Give **one** reason.

(1 mark)

- c. State any **two** ways of maintaining a fish pond.

(2 marks)

43. a. Give a reason why farmers will be encouraged to produce commodities when they are scarce?

(1 mark)

- b. Mention any **two** examples of physical farm records.

(2 marks)

Continued/...



c. Explain how the slope of land can affect agricultural production. (1 mark)

44. a. Name the **two** feeding habits of goats. (2 marks)

b. State the **three** characteristics of goats suitable for breeding.

(3 marks)

c. Give any **three** characteristics of “exotic” trees.

(3 marks)

45. a. Classify the following feeds of cattle into roughages and concentrates:
cotton seed cakes, green grass, maize bran, meat meal and millet stalks.

Roughages: _____

Concentrates: _____

(5 marks)

Continued/...



- b. State any **two** advantages of Malawi Zebu.

(2 marks)

46. Give **three** factors to be considered when designing a fish pond.

(3 marks)

SCIENCE AND TECHNOLOGY

47. a. State **one** characteristic of a compound leaf.

(1 mark)

- b. Classify the following invertebrates into **protozoa** and **arthropods**:
amoeba, millipede, crab, spider and plasmodium.

Protozoa: _____

Arthropods: _____

(5 marks)

- 48 a. Describe each of the following nutritional deficiency diseases:

- (i) Scurvy (1 mark)

Continued/



(ii) Goitre (1 mark)

b. Name any **two** suitable food that helps to prevent scurvy. (2 marks)

c. State the difference between lacto vegetarians and strict vegetarians. (3 marks)

Figure 7 is a diagram showing a method of cooking. Use it to answer **Questions 49 a, b and c.**

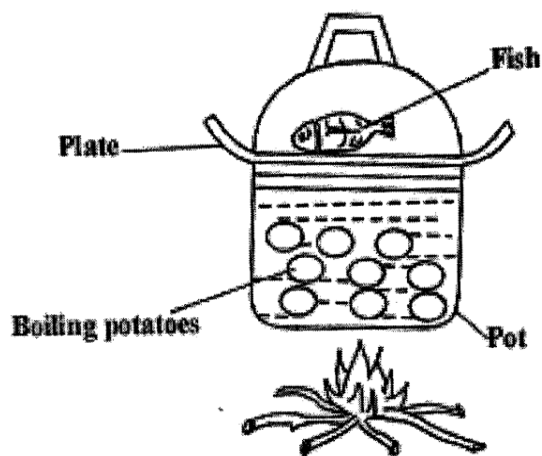


Figure 6

49. a. (i) Identify this method of cooking the fish. (1 mark)

(ii) Give **one** reason why this method of cooking is economical. (1 mark)

b. Write down **three** effects of poor nutrition on the family. (3 marks)

50. a. **Figure 8** is a diagram showing a human arm. Use it to answer the questions that follow.

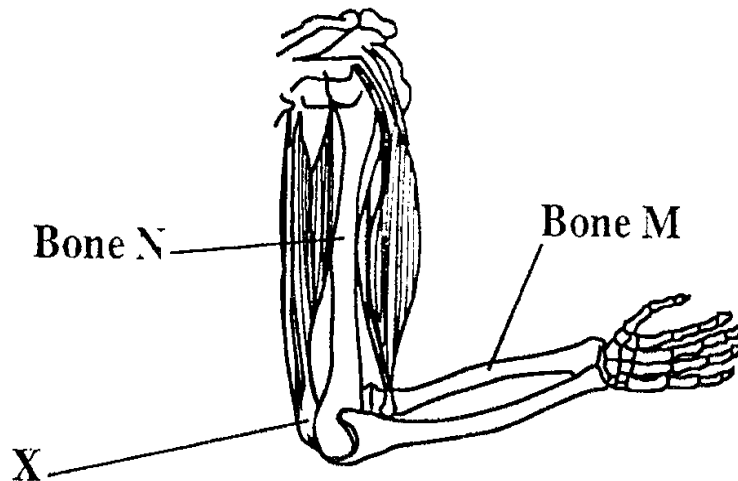


Figure 8

(i) Name the bone joint labelled X. (1 mark)

Continued/...

(ii) Name the tissues that joins bones **M** and **N**. (1 mark)

b. Explain how the arm is able to bend. (2 marks)

51. a. State any **two** characteristics of fruits that are dispersed by wind. (2 marks)

b. Give any **two** examples of fruits that are dispersed by wind. (2 marks)

52. a. State any **two** disadvantages of **improvised** classroom technologies. (2 marks)

b. Mention any **two** ways of keeping food safe in the kitchen. (2 marks)

END OF QUESTION PAPER

NB: This paper contains 13 printed pages.

ALBRIMAS (Alipo Schools, Bright Future, Maranatha Institute and Snow White Schools)

