

LOYOLA JESUIT SECONDARY SCHOOL

2021 JUNIOR CERTIFICATE MOCK EXAMINATION

AGRICULTURE

Subject Number: J012

Time Allowed: 2 hours

(100 marks)

Instructions

- This paper contains 11 printed pages.
Please check.
- There are 40 questions in this paper.
- The paper has three sections A, B, and C.
Answer all questions in all sections.
- The maximum number of marks for the answers in section B and C is indicated against each question.
- Answer the questions in the spaces provided
- In the table provided on this page, tick against the question number you have answered.

Question number	Tick if answered	Do not write in these columns	
1-20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
Total			

@LOYOLA MOCK

TURN OVER

SECTION A (30 MARKS)**MULTIPLE CHOICE****Instruction**

There are thirty questions in this section. Encircle the letter of your choice representing the right answer

1. Which of the following are examples of natural resources?
 - a. Water,air,vegetation
 - b. Air, moon, water
 - c. Sunlight, soil ,rocks
 - d. Vegetation, soil, temperature
2. Which of the following is **not** a scientific approach to agricultural research?
 - a. Problem identification
 - b. Experimental design
 - c. Data collection
 - d. Report identification
3. Why is it advisable to have a control in an experiment?
 - a. To avoid environmental interferences
 - b. To obtain equal results in the experiment
 - c. To avoid human bias in the experiment
 - d. To compare the treatments in the experiment

Table 1 shows results of an experiment on different types of fertilizer applied against yield (kg) produced. Use it to answer questions 4 and 5

BLOCK	YIELD (kg)
CAN	5500
Urea	6000
Sulphate of ammonia	3500
No fertilizer	5000

4. The aim of the experiment was to find out the effects of
 - a. Different types of fertilizer
 - b. Amount of yields
 - c. Different types of fertilizer against yields produced
 - d. None of the above
5. Which one is the best type of fertilizer?
 - a. Can
 - b. Urea
 - c. No fertilizer
 - d. Sulphate of ammonia

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6. The removal of weeds from the field is known as
 - a. Transplanting
 - b. Stalking
 - c. Weeding
 - d. Thinning
7. Which of the following is not a category of marketing function
 - a. Exchanging
 - b. physical
 - c. facilitating
 - d. demand
8. Choose the correct answer to complete the statement. Chemical weathering is also influenced by
 - a. wind
 - b. temperature changes
 - c. living organisms
 - d. water
9. The layer of soil that is most cultivated is
 - a. sub soil
 - b. parent material
 - c. top soil
 - d. partly weathered parent material
10. Plants and animals are examples of
 - a. physical weathering agents
 - b. chemical weathering
 - c. biological weathering
 - d. natural weathering

11. Which of the following is an input cost in animal production?
 - a. purchase of fertiliser
 - b. purchase of seeds
 - c. purchase of layers marsh
 - d. purchase of herbicides
12. Rearrange the following in order of how a vegetable fence is constructed
 1. Digging the holes in which poles are fixed
 2. Marking the boundary of the field
 3. Tying cross members to the members
 4. Fixing the poles around the field
 - a. 1,2,3,4
 - b. 2,1,3,4
 - c. 3,4,2,1
 - d. 4,3,1,2
13. Thinning should be done
 - a. 12 days after germination
 - b. 1 day after planting
 - c. 10 days after germination
 - d. Before planting
14. Which of the following is a symptom of maize cob rot in maize?
 - a. Yellowish streaking on leaves
 - b. Grains on the cob become rotten
 - c. Spores on the whole plant
 - d. Brown spores on leaves

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15. Which of the following is not an example of internal parasites of chickens
- Round worm
 - Hook worm
 - Tape worm
 - Lice

Fowl chorela is a disease that attacks chickens .use this information to answer question 16

16. What causes the disease
- Virus
 - Bacteria
 - Fungi
 - Protozoa
17. How is the disease transmitted
- Contact with infected chickens
 - Picking from the ground
 - Contaminated feeds and water
 - Death
18. Which of the following ways can be used to control the disease mentioned above
- Sanitation
 - Ventilation
 - Use of sulphadimidine drug
 - Drying

Table 2 shows the relationship between price and demand of bananas of a certain market. Use it to answer questions 19and20

Price (mk)	Demand (kg)
10	100
15	90
20	80
30	70
40	55

19. What is the relationship between the price and demand
- When the price decreases, the demand of bananas increases
 - When the price increases, the demand of bananas increases
 - When price increases, the demand of bananas decreases
 - When the price increases, the demand of bananas remains constant
19. What is the price of banana when demand is the highest?
- 10mk/kg
 - 15mk/kg
 - 20mk/kg
 - 30mk/kg
20. What name is given to a farming system where crops are grown

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together with raising animals on the same farm?

- a. Crop rotation
- b. Mixed farming
- c. Mixed cropping
- d. Agro forestry

21. Which of the following types of soil erosion occurs on flat land where the top soil is removed from a large surface area?

- a. Sheet erosion
- b. Gully erosion
- c. Rill erosion
- d. Splash erosion

22. What name is given to enclosures built to restrict the movement of animals?

- a. Spray race
- b. Fences
- c. Granaries
- d. Crushes

23. Which of the following is the farm business management?

- a. Capital
- b. Labour
- c. Preparing the land
- d. Farm budgeting

24. Which of the following are ways of reducing marketing risks?

- a. Insuring cash crops and valuable livestock against physical damage or theft
- b. Infection or death of animals as a result of disease
- c. Theft of crops or livestock which can be a serious setback to farmer
- d. It enables a buyer and a seller located at different places to transact business

25. Which of the following industries in Malawi produces Chombe Tea

- a. Kapani
- b. Unilever
- c. Press food limited
- d. Rab processors limited

26. Which of the following is the function of phosphorus?

- a. It increases disease resistance in crop
- b. Distorted shoot growth
- c. Short internodes
- d. Increased branching

27. Why are finances important?

- a. It helps to apply for credit
- b. It helps farmers to avoid over expenditure
- c. Hire labour or pay wages
- d. It helps to check on the production method

28. Which of the following is a problem of agricultural marketing?

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- a. Storage of farm produce
- b. Inadequate land
- c. Inadequate labour
- d. Storage of farm inputs

- a. Assembling
- b. Find supplies
- c. Selecting of marketing channel
- d. transportation

29. Which one of the following is one of the selling activities?

SECTION B (40 marks)

Answer all the questions in the spaces provided.

30. A farmer growing tomatoes kept the following record for the enterprise

- Bought seeds k300.00
- Bought fertilizer k2000.00
- Bought insecticide k400.00
- Labour charge k600.00 price per head of tomatoes k30.00

a. Write down all the costs for the farmer. _____

(4

marks)

b. Calculate the total income if the farmer produced 400 heads of tomatoes and sold them all

(2 marks)

- c. Calculate profit/loss for the farmer

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(3 marks)

31. Explain how the following ways contributes to the loss of soil fertility:

- a. Crop removal

(2 marks)

- b. Monocropping

(2 marks)

32. a. Give **two** examples of organic fertilizer:

(2 marks)

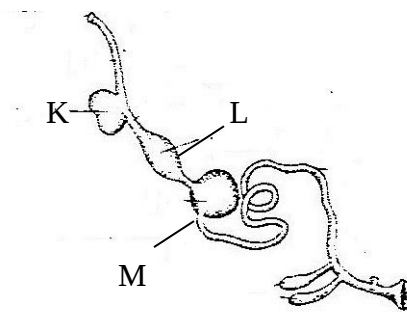
- c. Describe **two** limitations of organic fertiliser:

(4 marks)

33. Explain **three** importance of weeding

(6 marks)

34. Figure 1 is a diagram of the digestive system of a farm animal.



a. To which class of livestock does the animal belong?

(1 mark)

b. Name the parts labelled:

K _____

L _____

M _____ (3 marks)

c. State one function of part **L**.

(1 mark)

35. Table 2 below shows feeds for laying chickens at various ages.

- a. Fill in the blank spaces by mentioning the type of feed in the spaces given

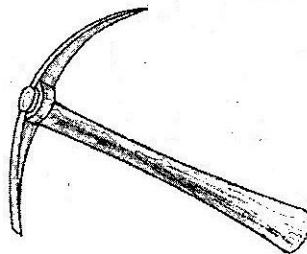
Age in weeks	Type of feed
0-10	
10-18	
18-72	

(3 marks)

- b. Explain why laying chickens needs a lot of calcium

_____ (2 marks)

Figure 2 is a diagram of a farm equipment .Use it to answer question 37



36. a. name the farm equipment

_____ (1 mark)

- c. Name the source of power that can be used to operate the farm equipment

_____ (1 mark)

- d. Give any **two** reasons for observing safety measures when using the farm equipment

_____ (2 marks)

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SECTION C (30 marks)

37. Explain any **four** limitations of intensive system.

[illegible]

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38. Give any **four** importance of planting early.

[illegible]

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Name of industry	Raw materials	Products
	Maize	
Capital oil industry		
		Sugar
	Cotton	

40. Give any **three** roles of agro-based industries in supporting the growing population

[illegible]

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