



- 1.a) Explain **five** importance of entrepreneurship to an economy (10mks)  
 b) Explain FIVE sources of finance open to Kenya government. (10mks)

2.a) Highlight FIVE differences between a private limited company and public corporation (10mks)

b) Maendeleo Traders have the following information in their books of account on 31<sup>st</sup> December 2024.

	Kshs.
Stock (01/01/2024)	6,000
Sales	100,000
Return-in	2,000
Return-out	2,800
Carriage-in	1,000
Carriage-out	1,500
Purchases	88,000
Stock (31/12/2024)	4,000
Commission earned	3,500
Discount allowed	2,200
Sunday expenses	4,000
Discount received	4,400
Postage	800
Stationery	1,200

**REQUIRED**

- (i) Prepare a trading profit and loss account for Maendeleo Traders (8mks)  
 (ii) Calculate - Mark -up (1mk)  
 (iii) - ROSTO (1mk)

3 (a) Explain **five** negative effects of an increasing population. (10mks)

b) Use the demand and supply schedule given below to draw a diagram showing the following;

- (i) Demand and supply curves  
 (ii) Equilibrium quantity, equilibrium price and equilibrium point  
 (iii) Excess demand and excess supply

Price	Quantity demanded	Quantity supplied
450	10	70
400	20	60
350	30	50
250	40	40
150	50	30
50	60	20
10	70	10

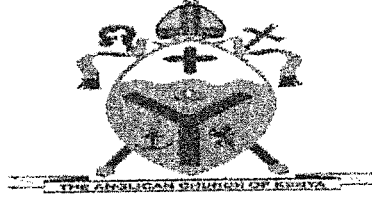
(10mks)

- 4 a) Explain **five** ways in which central Bank of Kenya regulates the operations of commercial banks in Kenya. (10mks)
- b) A farmer in Kitale has maize to transport to Mombasa. He could either use road or railway transport. Explain to him **five** merits of using road instead of railway to transport the maize. (10mks)
- 5 a) Explain five reasons for government involvement in business activities. (10mks)
- b) Prepare a duly balanced three column cash book from the following information.
- Jan 1: Balance b/d cash shs.4,000 bank shs 27,000
  - “ 4 Settled Olweny creditors account of shs. 8,000 by cheque having deducted 6% cash discount.
  - “ 8: Received shs. 6000 cash from Mutoma traders
  - “ 16: Deposited shs. 4,500 to the bank account
  - “ 24: Withdrew shs. 9,200 from the bank for private use.
  - “ 29: Received shs. 19,950 from Kawawa by a cheque after allowing 5% discount.
  - “ 31: Banked all the cash leaving only sh 1,500 in the office. (10mks)
- 6 a) Explain **five** factors that influence decisions on what goods and services to Produce. (10mks)
- b) Explain **five** circumstances under which an insurance contract may be terminated. (10mks)



NAME.....INDEXNO.....ADM NO.....

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**ACK MASENO WEST JOINT EXAMINATION  
KENYA CERTIFICATE OF SECONDARY EDUCATION**

**565/1**

**BUSINESS STUDIES**

**PAPER 1**

**MARCH, 2025**

**DURATION ; 2 HOURS**

**TERM 1 – 2025**

**INSTRUCTIONS TO THE CANDIDATES**

- a) Write your name and Admission Number in the spaces provided above
- b) Sign and write the date of the examination in the spaces provided.
- c) This paper consists of 25 questions
- d) Answer ALL questions in the spaces provided.
- e) Candidate should answer the questions in English.

**FOR EXAMINEER'S USE ONLY**

QUESTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14
MARKS														

QUESTION	15	16	17	18	19	20	21	22	23	24	25

**TOTAL MARKS**

1. State **four** ways in which economic environment may negatively affect the performance of a business. (4 mks)

- a).....
- b).....
- c).....
- d).....

State any **four** circumstances under which a business would adopt cash with order (C.O) policy in payments.

- a).....
- b).....
- c).....
- d).....

3. Outline any **four** components of an efficient transport system. (4 mks)

- a).....
- b).....
- c).....
- d).....

4. The following items were recorded in the books of kodongo Enterprises.

	sh
Opening stock	14,000
Purchase	80,000
Sales	150,000
Return inwards	5,000
Return outwards	10,000
Closing stock	8,000

Required:

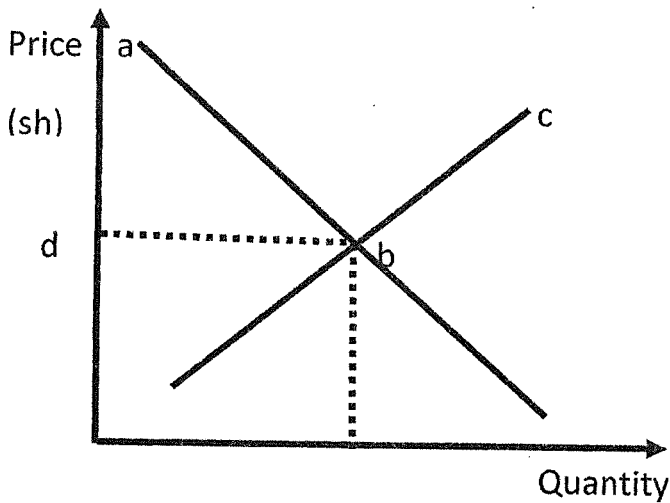
- a) Calculate the cost of goods sold (2 mks)

b) Determine margin percentage (3 mks)

5. Outline any **four** reasons why many Kenyans shy away from taking insurance cover (4mks)

- a).....
- .....
- b) .....
- .....
- c).....
- .....
- d).....
- .....

6. In the diagram below, name the parts labelled a, b, c and d (4 mks)



- a \_\_\_\_\_
- b \_\_\_\_\_
- c \_\_\_\_\_
- d \_\_\_\_\_

7. State any **four** reasons for government involvement in business activities (4mks)

- a).....
- b) .....
- c).....
- d).....

8. Identify any **four** rewards to labour as a factor of production (4mks)

- a).....
- b) .....
- c).....
- d).....

9. State **four** causes of unemployment in Kenya .(4 mks)

- a).....
- b) .....
- c).....
- d).....

10. Indicate in the spaces below the relevant factor of production associated with the following resources (4 mks)

RESOURCES	FACTOR OF PRODUCTION
a) Water	
b) Manager	
c) proprietor	
d) vehicles	

1. State any **four** characteristics of good money system (4mks)

- a).....
- b) .....
- c).....
- d).....

2. State any **four** situations that indicate the existence of a business opportunity. (4 mks)

- a).....
- b) .....
- c).....
- d).....

3. State any **four** accounting documents used in home trade. (4 mks)

- a).....
- b).....
- c).....
- d).....

14. State any **four** reasons why an increase in income per capital may not necessarily lead to an increase in standard of living.

- a).....
- b).....
- c).....
- d).....

15. State **four** monetary tools that can be used by the central Bank of Kenya to reduce the amount of money in circulation (4 mks)

- a).....
- b).....
- c).....
- d).....

6. the following is the credit side of a three column cash book.

ate	Details	A	B	C	D
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name the column marked A ,B ,C and D

- A. ....
- B. ....
- C. ....
- D. ....

. State any **four** unethical issues in entrepreneurship (4 mks)

- a).....
- b) .....
- c).....
- d).....

18. In the table below, indicate the account to be debited and the account to be credited in each case.(4 mks)

TRANSACTION	A/C DEBITED	A/C CREDITED
a)withdraw sh 4,000 cash for personal use		
b)paid rent of sh 3,000 by cheque		
c)purchased goods worth sh 10,000 credit		
d)Deposited business cash to bank account		

19.State **four** roles of the Nairobi Stock Exchange market (4 mks)

- a).....
- b) .....
- c).....
- d).....

20.The following information was extracted from the books of maseno traders

Rate of stock turnover	3 times
Mark-up	20%
Opening stock	160,000
Closing stock	200,000

Required: calculate

a)Gross profit (2 mks)

b)Sales (2 mks)

21. Human wants have become increasingly difficult to satisfy, Outline any four reasons that can be undertaken by man to address that can be undertaken by man to address this challenge. (4 mks)

- a).....
- b) .....
- c).....
- d).....

22.Prepare Hekima Traders Trial balance at 30<sup>th</sup> april 2020 given the following items recorded. (5 mks)

Bank Overdraft	48,000
Debtors	26,500
Capital	102,000
Stock	84,000
Creditors	73,000
Discount allowed	28,000
Rent received	48,000
Mortgages	200,000
Land	236,500
Cash	96,000

23. State any **THREE** categories of public expenditure. (3 mks)

- a).....
- b) .....
- c).....

24. Outline any **four** trends in communication (4 mks)

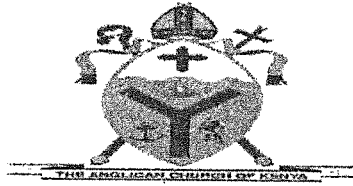
- a).....
- b) .....
- c).....
- d).....

25. Identify the book of original entry where each of the following transactions maybe recorded .

<b>TRANSACTIONS</b>	<b>BOOK OF ORIGINAL ENTRY</b>
a) Bought goods on credit	
b) Sold an office on credit	
c) Some goods were returned back to the supplier	
d) Sold goods in cash	

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**ACK MASENO WEST JOINT EXAMINATION  
KENYA CERTIFICATE OF SECONDARY EDUCATION**

231/3

**BIOLOGY****PAPER 3****MARCH/APRIL 2025****TIME: 1 $\frac{3}{4}$ HOURS****INSTRUCTIONS**

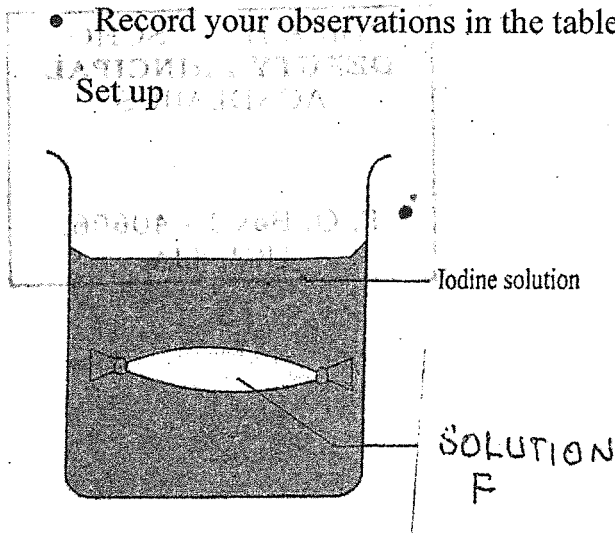
- (a) Write your name and index number in the spaces provided above  
 (b) Sign and write the date of examination in the spaces above  
 (c) Answer all questions in the spaces provided.  
 (d) You are required to spend the first 15 minutes of the 1 $\frac{3}{4}$  hours allowed for this paper reading the whole paper carefully before commencing your work.  
 (e) Candidates should answer all questions in English.

QUESTION	MAXIMU SCORE	CANDIDATES SCORE
1	12	
2	15	
3	13	
<b>TOTAL SCORE</b>	<b>40</b>	

1. a) You are provided with the following; 10cm visking tubing, Iodine solution in 100ml Beaker, cotton thread and solution F, wash bottle.

Procedure.

- Tie one end of visking tubing tightly.
- Put solution F in the visking tubing until three – quarters full.
- Tie the other end of the tubing tightly. Ensure there is no leakage at both ends of the visking tubing.
- Clean outer surface of visking tubing with clean water in wash bottle.
- Place the visking tubing containing solution F in the beaker containing Iodine solution and allow the set up to stand for 30 minutes.
- Record your observations in the table below



	Colour of content in visking tubing
Start of experiment	
End of experiment	

2marks

ii) Account for the observation in (i) above.

3marks

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iii) State the physiological process being demonstrated in the set – up above. 1mark

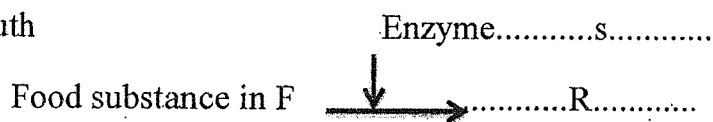
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iv) Give a reason why the visking tubing is cleaned after putting solution F. 1mark

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v) State the steps of digestion of the food substance in F and enzymes involved at the following sites of the alimentary canal. 4marks

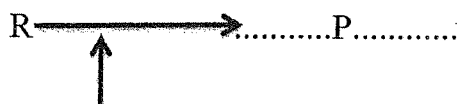
a) Mouth



S:.....

R:.....

b) Ileum



Enzyme..... Q.....

P:.....

Q:.....

VI) State the group of carbohydrates in which food substance in F belongs to. 1mark

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2a) You are provided with plant leaf E, F, G, H. Use the specimen to develop a dichotomous key that can be used to identify the plants which they were obtained from, based on the following characteristics in the order given. 6marks

- Leaf type
- Leaf venetian
- Leaf margin

ii) Explain two ways in which the stem of specimen E, adapts the plant for maximum photosynthesis. 2marks

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b) You are provided with specimen S, observe it keenly and answer the questions that follow

i) Draw the section of specimen S and label any two parts. 3marks

ii) With reasons in each case, State the type of fruit and method of dispersal of specimen S. (4mks)

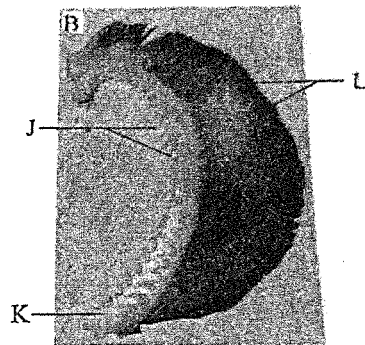
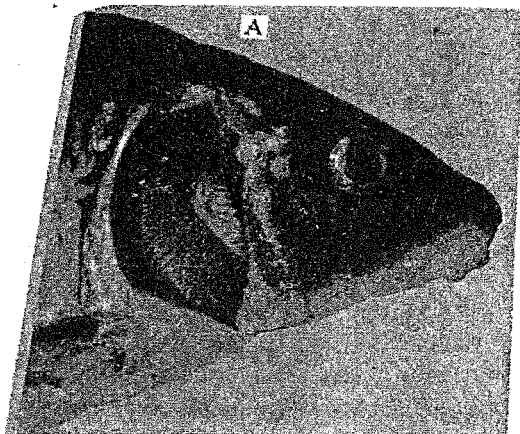
Types of fruit:.....

Reason:.....

Method of dispersal:.....

Reason:.....

3 Photograph A below is the head of a bonny fish in which none of the external structures has been removed to expose the underlying internal organs. Photograph B is a magnified view of one of the exposed internal organs. Examine them.



a) Name the exposed internal organ in photograph A. 1 mark  
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b) Name the external structure that was removed in photograph A. 1 mark  
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c) With a reason identify the class to which the organism in photograph A belongs to: 2 marks

Class:.....

Reason:.....

d) Draw a diagram of organ in photograph B and label parts J, K, L giving their identity. 5 marks

ii) Outline two adaptations of part labeled L to its function. 2 marks

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e) Give a similar part in class Mammalia and state the common functions performed by the organs. 2 marks

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NAME.....INDEXNO.....ADM NO.....

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**ACK MASENO WEST JOINT EXAMINATION**  
**KENYA CERTIFICATE OF SECONDARY ~~EDUCATION~~**

231/2

BIOLOGY

Paper 2 (THEORY)

March 2025

2 hours

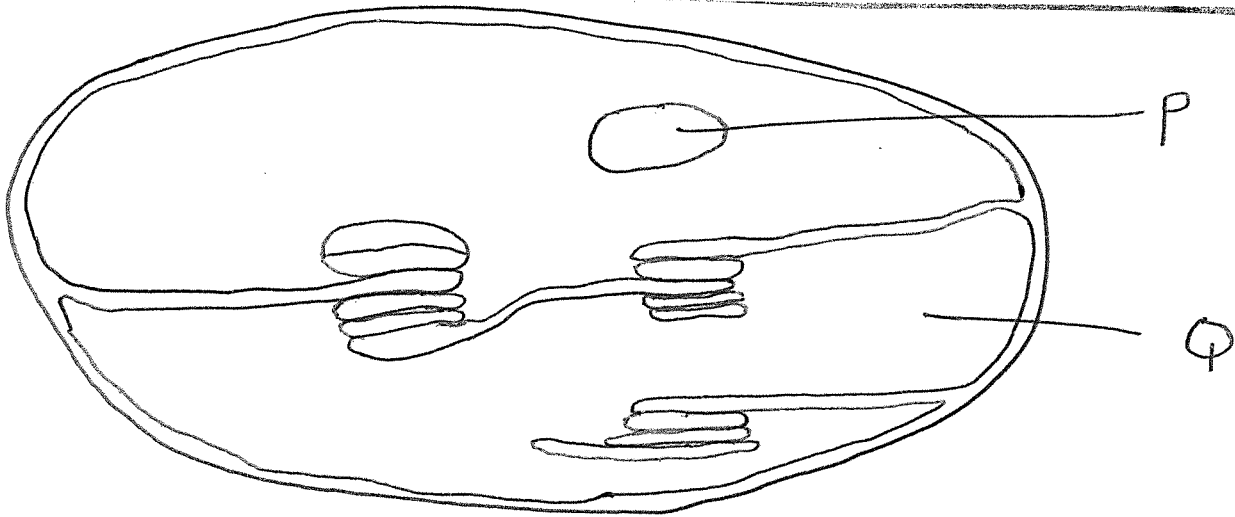
**Instructions to candidates**

- Write your name and index number in the spaces provided above.
- Sign and write the date of the examination in the spaces provided above.
- This paper consists of two sections; A and B.
- Answer all the questions in section A in the spaces provided
- In section B answer question 6 (compulsory) and either question 7 or 8 in the spaces provided after question 8.
- This paper consists of 12 printed pages.
- Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- Candidates should answer the questions in English.

**For Examiner's Use Only**

Section	Question	Maximum Score	Candidate's Score
A	1	8	
	2	8	
	3	8	
	4	8	
	5	8	
B	6	20	
	7	20	
	8	20	

1. The diagram below shows one of the structures found in plant cell



(a) Identify the organelle (1mk)

(b) Name the physiological process that occurs in the structure named above (1mk)

(c) (i) Name the structure you would expect to find chlorophyll molecules (1mk)

(ii) Identify the structure where photolysis takes place (1mk)

(iii) State the importance of photolysis in the process named in (b) above (2mks)

(d) Name the parts labelled P and Q (2mks)

P \_\_\_\_\_

Q \_\_\_\_\_

2. In human beings the ability to taste phenylthiourea depends upon the presence of a dominant gene "T"

(a) Perform a cross between a homozygous 'taster' and a 'non-taster' in order to determine the genotypes and phenotypes of F<sub>1</sub> generation. (4mks)

(b) Determine the phenotypic ratio of the F<sub>2</sub> generation (3mks)

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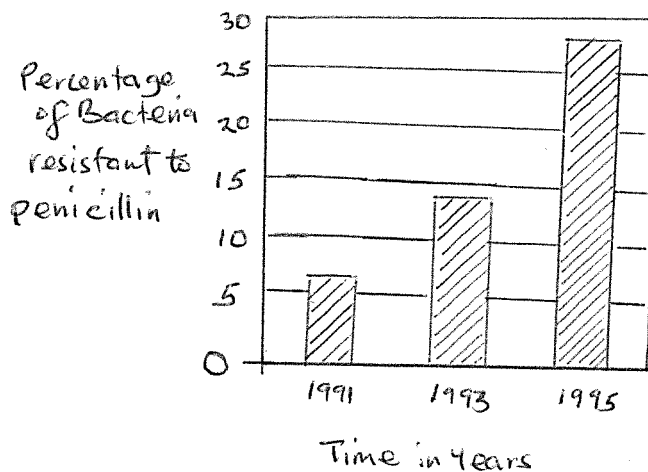
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(c) What is the probability of getting a 'non-taster' in F<sub>2</sub>? (1mk)

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3. (a) The figure below shows the change in percentage of disease-causing bacteria that were resistant to the antibiotic penicillin from 1991 to 1995.



(i) Describe the change in percentage of bacteria resistant to penicillin between 1991 and 1995 (2mks)

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(ii) Explain how a population of antibiotic-resistant bacteria can develop (4mks)

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(b) How does convergent evolution occur? (2mks)

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4. (a) A student left a damp piece of bread on an open plate accidentally. Three days later, he observed some black substances developing on the bread.

(a) i) Suggest the identity of the black substance that grew on the bread (1mk)

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ii) State the mode of reproduction shown by the organism named above (1mk)

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(iii) State the kingdom to which the organism belongs

(1mk)

.....

(b) Draw and label a complete structure of the organism named in (a) (i) above (3mks)

(c) State the role played by members of the kingdom named in (a) (iii) above to the ecosystem (2mks)

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5. By giving specific examples in each case, state the importance of carbohydrates (8mks)

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(ii) State how you would identify the gas named in (a) (i) above (1mk)

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(b) Explain part AB of the graph (2mks)

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(c) What does point B on the graph signify? (2mks)

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(d) What does part BC indicate? (4mks)

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(e) Explain part CD (5mks)

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(f) Name three cells in plants where photosynthesis occurs (3mks)

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(g) In a dense forest, explain why there is no grass growing underneath(2mks)

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7. (a) i) What is a microscope?

(1mk)

(ii) State two uses of a microscope

(2mks)

(b) Describe the stepwise procedure of observing a prepared slide using a light microscope under high power

(17mks)

8. (a) Describe the role played by water and temperature in germination (13mks)

(b) (i) What is metamorphosis?

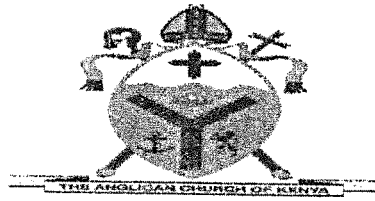
(1mk)

(ii) Differentiate between complete metamorphosis and incomplete metamorphosis (2mks)

(iii) State the advantages of metamorphosis. (4 marks)

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**ACK MASENO WEST JOINT EXAMINATION**  
**KENYA CERTIFICATE OF SECONDARY EDUCATION**

231/1  
BIOLOGY  
Paper 1  
(Theory)

March/April 2025  
TIME: 2Hours

**INSTRUCTIONS TO CANDIDATE!**

- ✓ Write your **name** and **admission number** in the spaces provided at the top of this page.
- ✓ Sign and write the date of examination in the spaces provided above.
- ✓ This paper consist of a single section.
- ✓ Answer all questions in the spaces provided.

**For Examiners Use Only**

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1 -30	80	
<b>TOTAL SCORE</b>		

1. Name the branch of biology that deals with the study of :-

(i) Hawks, eagles, parrots..... (1mark)

(ii) Bees, ants, termites..... (1mark)

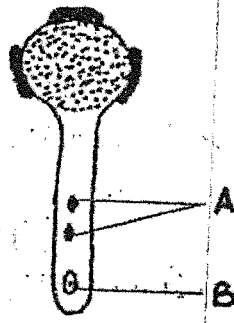
2. (a) State **two** ways by which the skin prevents entry of micro-organisms into the body.(2marks)

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.....

(b) Name the type of cell that destroys micro-organisms in the human body. (1marks)

(c) Name the component of blood that facilitates conversion of fibrogen to fibrin. (1mark).....

3. The diagram below illustrates a growing pollen tube.



(a) Name the part labeled B ..... (1mark)

(b) Explain the role of the part labelled A (2marks)

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4. Distinguish between monoecious plant and dioecious plant. (2marks)

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5. Explain the term positive feedback mechanism as used in homeostasis. (1mark)

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6. Define the following terms as used in cell physiology

(a) Haemolysis

(1mark)

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(b) Flaccid cell

(1mark)

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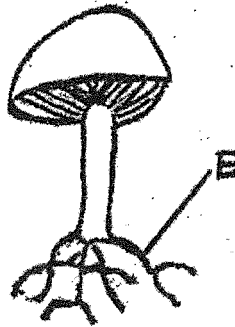
7. The diagram below shows an organism in a certain kingdom.

(a) Name the Kingdom to which the organism belongs (1mark)

.....

(b) State the mode of nutrition for the organism. (1mark)

.....



.....  
(c) Name the part labelled E and state its function.

Part..... (1mark)

Function..... (1mark)

8. Explain why most athletes prefer training from high altitude areas (3marks)

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9. In an experiment, a mouse was observed to have inhaled  $200\text{cm}^3$  of oxygen and exhaled  $199.75\text{cm}^3$  of carbon (IV) oxide in ten minutes.

(a) Calculate the respiratory quotient for the activity. (2marks)

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.....

(b) Identify the possible food substance consumed by the mouse (1 mark)

.....

.....

(c) State the fate of excess food consumed in (b) above in the human body (1 mark)

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10. Name two substances that would be used in hydrolysis of disaccharides in body tissues. (2 marks)

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11. In an experiment a group of students set up the apparatus below in the laboratory and made observations after 72 hours.

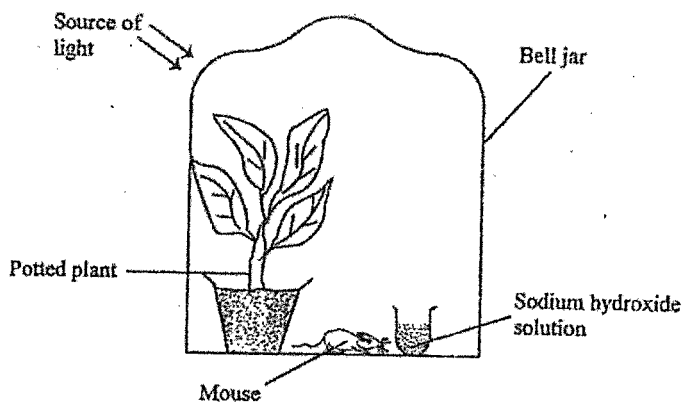
(a) Explain how inclusion of sodium hydroxide solution would affect the mouse in the experiment. (3 marks)

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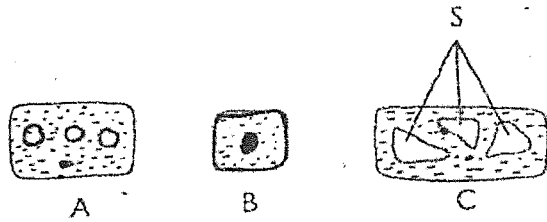


(b) State why the students preferred to use a bell jar and not a tin box in the experiment. (1 mark)

.....

.....

12. Below are cells found at different zones in a shoot tip.



(a) Name the zone in which cell A is found (1mark)

(b) State **two** characteristics of cells in the zone from where B was obtained (2marks)

(c) The preceding zone does not have a representative cell. Identify the zone. (1mark)

13. State **one** use for each of the following apparatus in the study of living organisms.

(i) Bait trap..... (1mark)

(ii) Specimen bottle..... (1mark)

14. A student observed an organelle using an electron microscope of magnification X800. Its diameter was 2 millimeters. Calculate the actual diameter of the organelle in micrometers.

(3marks)  
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15. (a) Distinguish between diffusion and active transport (2marks)

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(b) A group of form one students, while investigating on the process of osmosis were advised to use the tissues from fresh raw potato rather than the boiled potato tissue. Explain. (2marks)

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16. Name a disease caused by lack of each of the following in human beings.

(i) Vitamin C..... (1mark)

(ii) Iodine..... (1mark)

17. State **two** ways by which lactic acid formed in the muscles of an athlete is removed. (2marks)

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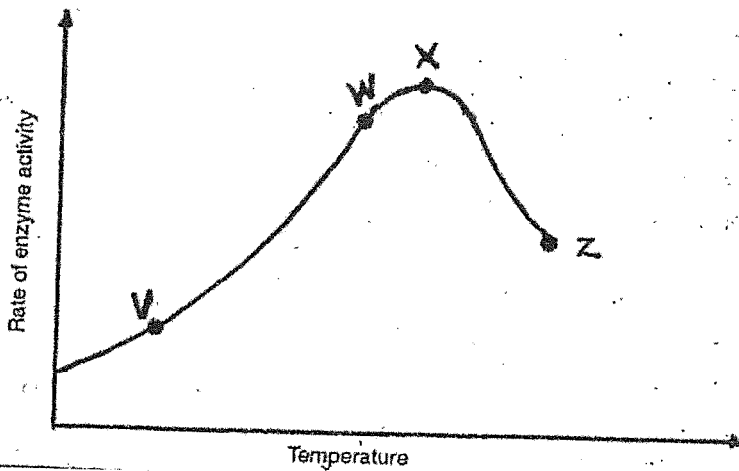
18. What are the advantage of desert animals excreting their nitrogenous waste in form of urea and not ammonia? (2marks)

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19. Explain why a bat is classified as a mammal yet it flies. (2marks)

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20. The graph below shows the rate of enzyme action in relation to changes in temperature. Account for the observations in each case for the rate of enzyme action.



(i) Between V and W (1mark)

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.....

(ii) At X (1mark)

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21. A grade six pupil observed a bird laying eggs that hatched into chicks. State any two characteristics of living things displayed. (2marks)

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22. Define the term Binomial Nomenclature (2marks)

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23. (a) Why are there no carrier males in haemophilic condition? (1mark)

.....  
.....

(b) What is polyploidy? (1mark)

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24. (a) Identify major photosynthetic cells in the leaves of terrestrial plants (1mark)

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(b) Identify the location of the cells (1mark)

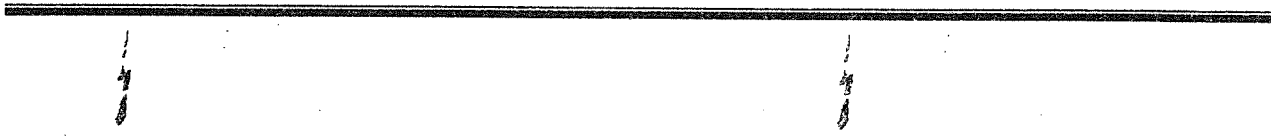
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25. (a) State the composition of an ecosystem. (2marks)

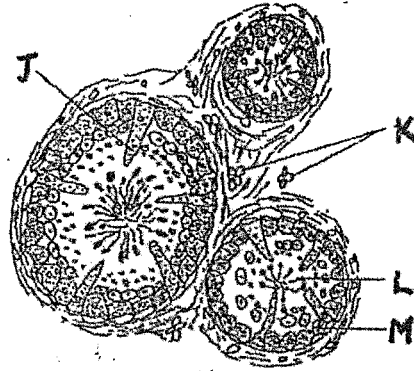
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(b) Explain why an ecosystem is said to be self-sustaining (2marks)

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26. A cross section of the epididymis of a human male reveals the following details.



(a) Name the part labelled J (1 mark)

.....

(b) State the function of the part labelled K (1 mark)

.....

(c) Cell M is a diploid cell from which structure L is formed.

(i) By what type of cell division does structure L arise from cell M (1 mark)

.....

(ii) State the number of chromosomes in L (1 mark)

.....

27. (a) What is natural selection? (1 mark)

.....

(b) What are the advantages of natural selection? (2 marks)

.....

28. Name fully the responses described below:-

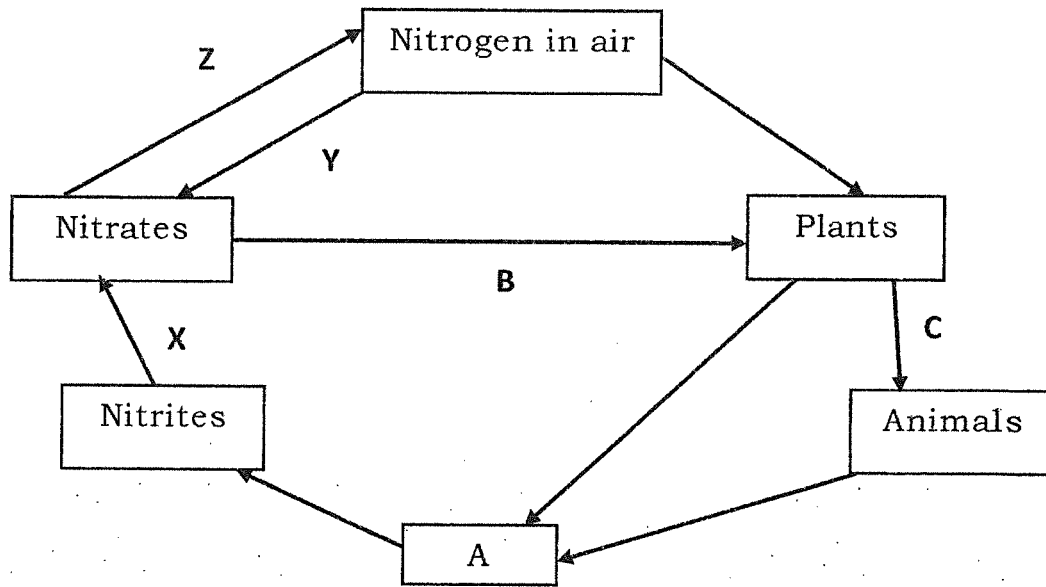
(a) Euglena swims towards water surface (1 mark)

.....

(b) A mosquito flies away from an insect repellent (1 mark)

.....

29. Below is a simplified drawing of the nitrogen cycle



(a) Identify the compound A.

(1mark)

(b) Name the processes labelled B, X and Y

(3marks)

B: .....

X: .....

Y: .....

30. State the units that constitute a nucleotide portion in a DNA strand.

(1mark)

.....  
.....



NAME.....INDEXNO.....ADM NO

SCHOOL.....SIGN.....DATE..



**ACK MASENO WEST JOINT EXAMINATION**  
**KENYA CERTIFICATE OF SECONDARY EDUCATION**

443/2

AGRICULTURE

PAPER 2

**Instructions to candidates**

- a) *Write your name and index number in the spaces provided above*
- b) *Sign and write the date of examination in the spaces provided above.*
- c) *This paper consists of three sections; A, B and C*
- d) *Answer all the questions in section A and B*
- e) *Answer any two questions in section C*
- f) *All answers should be written in the spaces provided.*
- g) *Answer all questions in English*
- h) *Involvement in any examination irregularity will lead to disciplinary action*

**For Examiner's Use only**

Section	Question	Maximum Score	Candidate's Score
A	1-15	30	
B	16-19	20	
C		20	
		20	
	<b>Total Score</b>	<b>90</b>	

**SECTION A (30 MKS)**

*Answer all questions in this section*

1. State four ways of controlling stress in poultry. (2mks)

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.....

2. Give four precautions taken when using workshop tools and equipment. (2mks)

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3. State four reasons for inbreeding in livestock. (2mks)

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4. Differentiate between flock mating and hand/ pen mating. (2mk)

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1  
7  
8

1  
7  
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5. List four preventive measures for livestock diseases. (2mks)

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6. List four materials collected by bees. (2mks)

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7. State four maintenance practices on a feed trough. (2mks)

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8. Give four reasons why tilapia fish is common in Kenyan lakes and rivers. (2mks)

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9. List four components of high-quality milk. (2mks)

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10. State four advantages of using metal/ steel as construction material. (2mks)

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11. Give two reasons for using litter in a poultry house. (2mks)

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12. Give four desirable qualities of a livestock ration. (2mks)

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13. Outline four harmful effects of internal parasites in livestock. (2mks)

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14. State four disadvantages of fold system in poultry rearing. (2mks)



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15. Name the diary cattle breed with the following characteristics:

a) White with few black marks or black with few white marks but the tail switch and the leg parts below the knees are white. (1/2mk)

.....

b) Dark brown in colour with white marks. (1/2mk)

.....

c) Brown in colour with white marks on the face, parts of the legs below the knees, tail switch and flanks. (1/2mk)

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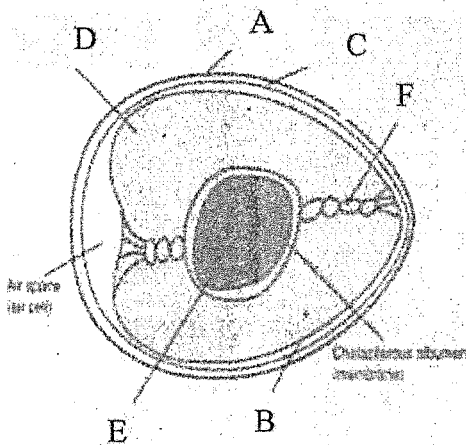
d) Brown in colour with black protruding eyes and black tail switch and muzzle. (1/2mk)



**SECTION B (20 MKS)**

*Answer all questions in this section*

16. The diagram below is an illustration of an egg. Study it carefully and answer the questions that follow.



a) Name the parts labelled B and F. (2mks)

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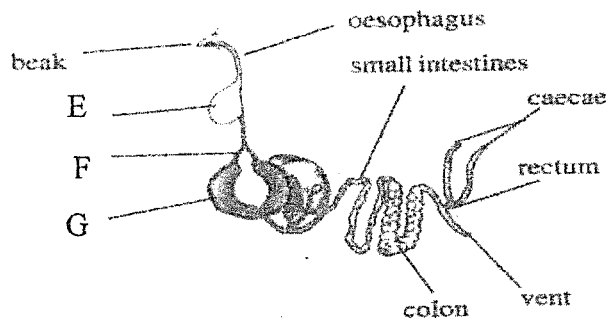
b) State two qualities of the part labelled A that should be considered when selecting eggs for incubation. (2mks)

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c) What is the function of the part labelled E in a fertilized egg? (1mk)

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17. The illustration below represents the digestive system of poultry. Study it and answer the questions that follow.



a) Name the parts labeled E and F. (2mks)

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b) State two ways in which part labeled G is adapted to its functions. (2mks)

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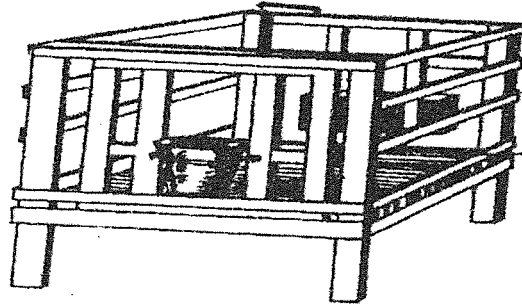
c) Give the function of the caecum in digestion in poultry. (1mk)

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18. The diagram below represents a calf pen. Study the diagram below and answer the questions that follow.



a) Identify the type of floor. (1mk)

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b) How high should the floor be raised above the ground level? (1mk)

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c) Give one reason for having the floor of the calf pen raised. (1mk)

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d) State four factors that should be considered in siting the calf pen. (2mks)

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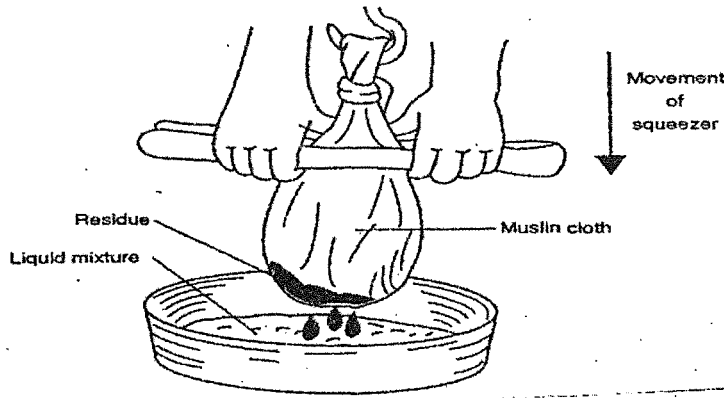
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19. The diagram below illustrates a method of processing honey. Study it and answer the questions that follow.



a) Identify the method illustrated above. (1mk)

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b) Apart from the method identified above, give two other methods of processing honey. (2mks)

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c) State two uses of processed wax. (2mks)

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**SECTION C (40 MKS)**

*Answer only two questions from this question*

**20.a** Discuss coccidiosis under the following subheadings:

i. Animal attacked. (3mks)

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ii. Symptoms. (4mks)

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iii. Control measures. (3mks)

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**b)** Describe the uses of various parts of a plunge dip. (10mks)

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**21.a** Describe ten signs of good health in livestock. (10mks)

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b) Describe **ten** deficiency symptoms of minerals in livestock. (10mks)

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21.a Describe <sup>factors to consider when selecting a breeding stock</sup> ten signs of good health in livestock. (10mks)

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b) Describe <sup>the tools used in the construction of Kenya top bar hives</sup> ten deficiency symptoms of minerals in livestock. (10mks)

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