



MARANDA HIGH SCHOOL
Kenya Certificate of Secondary Education
POSTMOCK EXAMINATIONS 2021

CODE: 231/3

BIOLOGY

January 2021 – TIME: 1³/₄ Hours

Name: Adm No:

Class:Candidate's Signature:Date: 25/1/2021.

INSTRUCTIONS TO CANDIDATES

- Answer all the questions.
- Answers **must** be written in the spaces provided in the question paper.
- Additional pages **must not** be inserted.
- You are required to spend the first 15 minutes of the 1 ³/₄ hours allowed for this paper reading the whole paper before commencing your work.

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	14	
2	18	
3	8	
TOTAL	40	

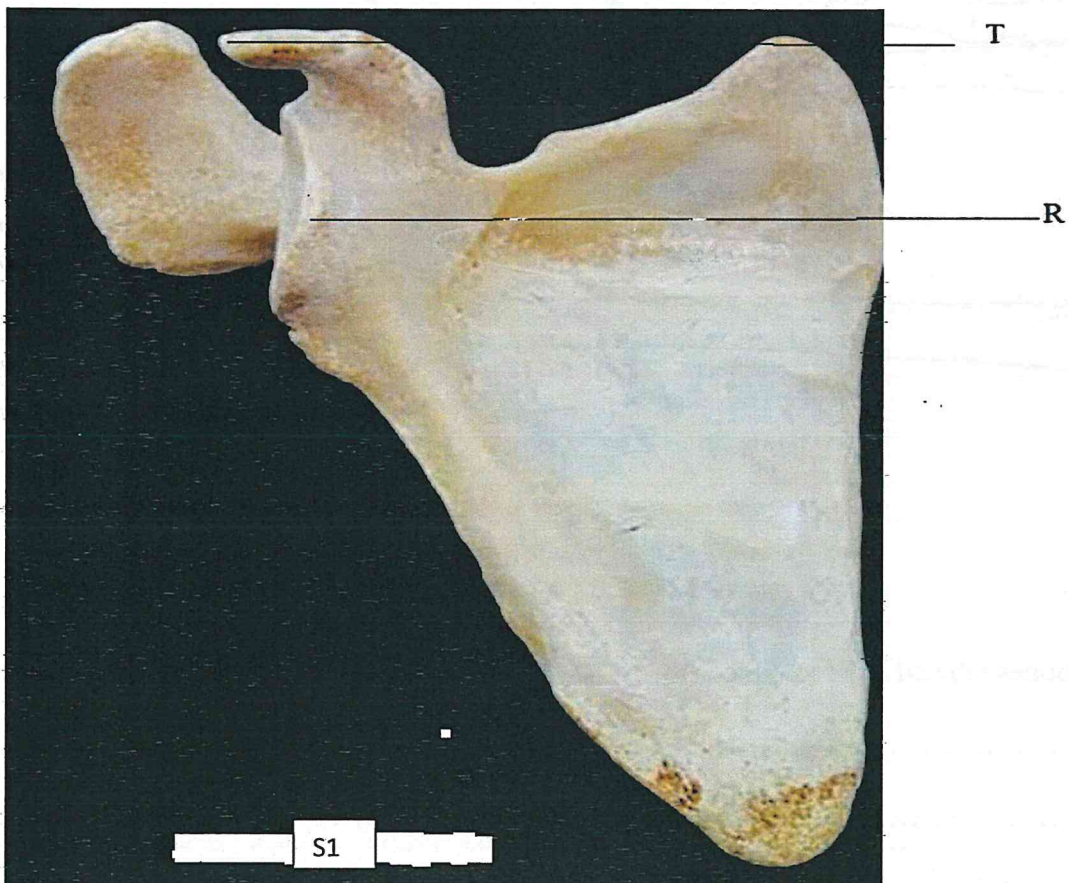
- [illegible]

(b) State two enzymes required to digest powder P in the alimentary canal in human beings.

(2 marks)

.....
.....

2. Photographs S1, S2 and S3 represent specimens obtained from the same animal while photograph S4 represents structure on a part of a plant. Examine them and use them to answer the following questions.



(a) i) Identify specimen S1

(1 marks)

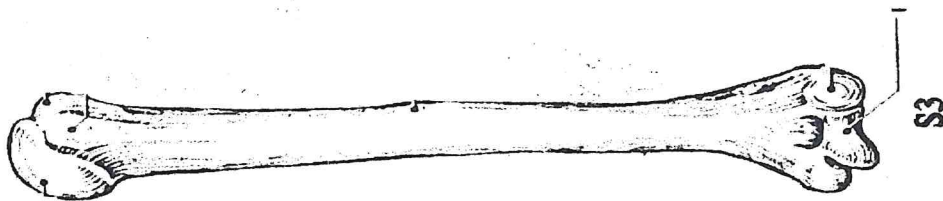
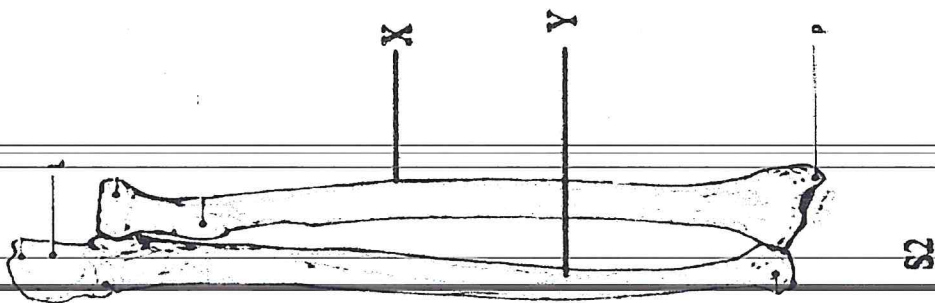
S1.....

ii) Name the structures labeled T and R on the photograph

(2marks)

T.....

R.....



b) i) Identify bones labeled X, Y and S3

(3 marks)

X.....

Y.....

S3.....

ii) Identify the part labeled I

(1 mark)

I.....

iii) What is the significance of the structure labeled L on the photograph S2

(2 marks)

.....
.....
.....
.....

iv) With reasons name the type of joint formed at the proximal and distal ends of the specimen

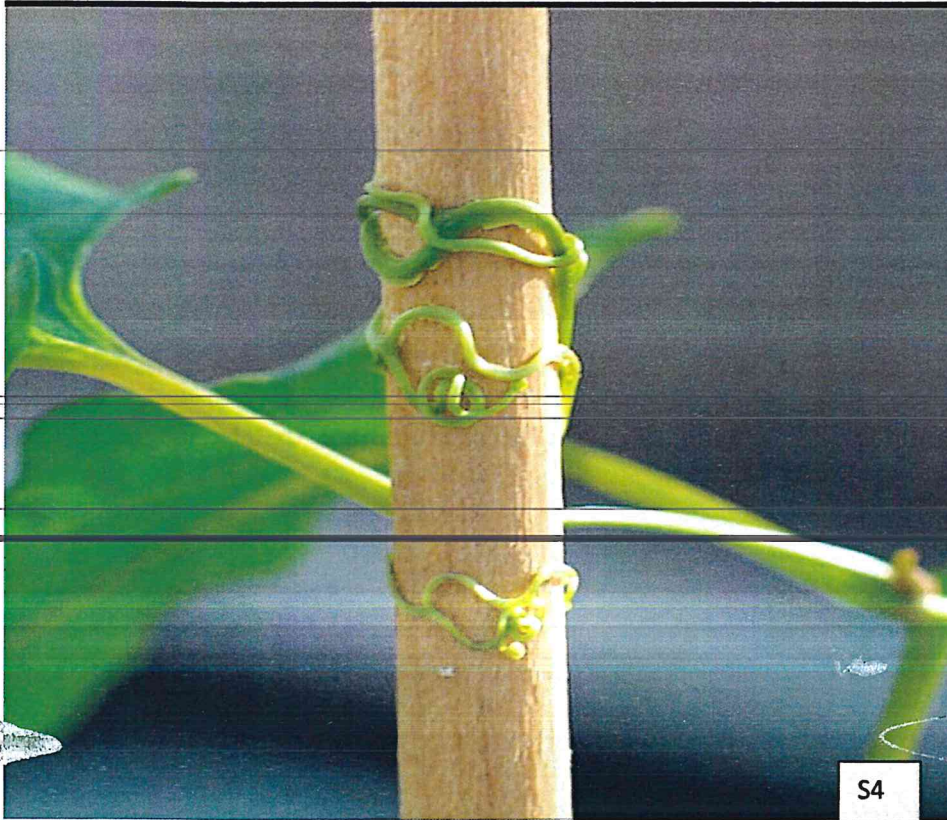
S3.

Proximal end.....(1 mark)

Reason.....(1 mark)

Distal end.....(1 mark)

Reason.....(1 mark)



(c) i) Name the type of response shown by plant S4

(1 Mark)

.....

ii) Explain how the response occurred

(2 marks)

.....

.....

.....

.....

iii) Identify strengthening tissues in woody plants

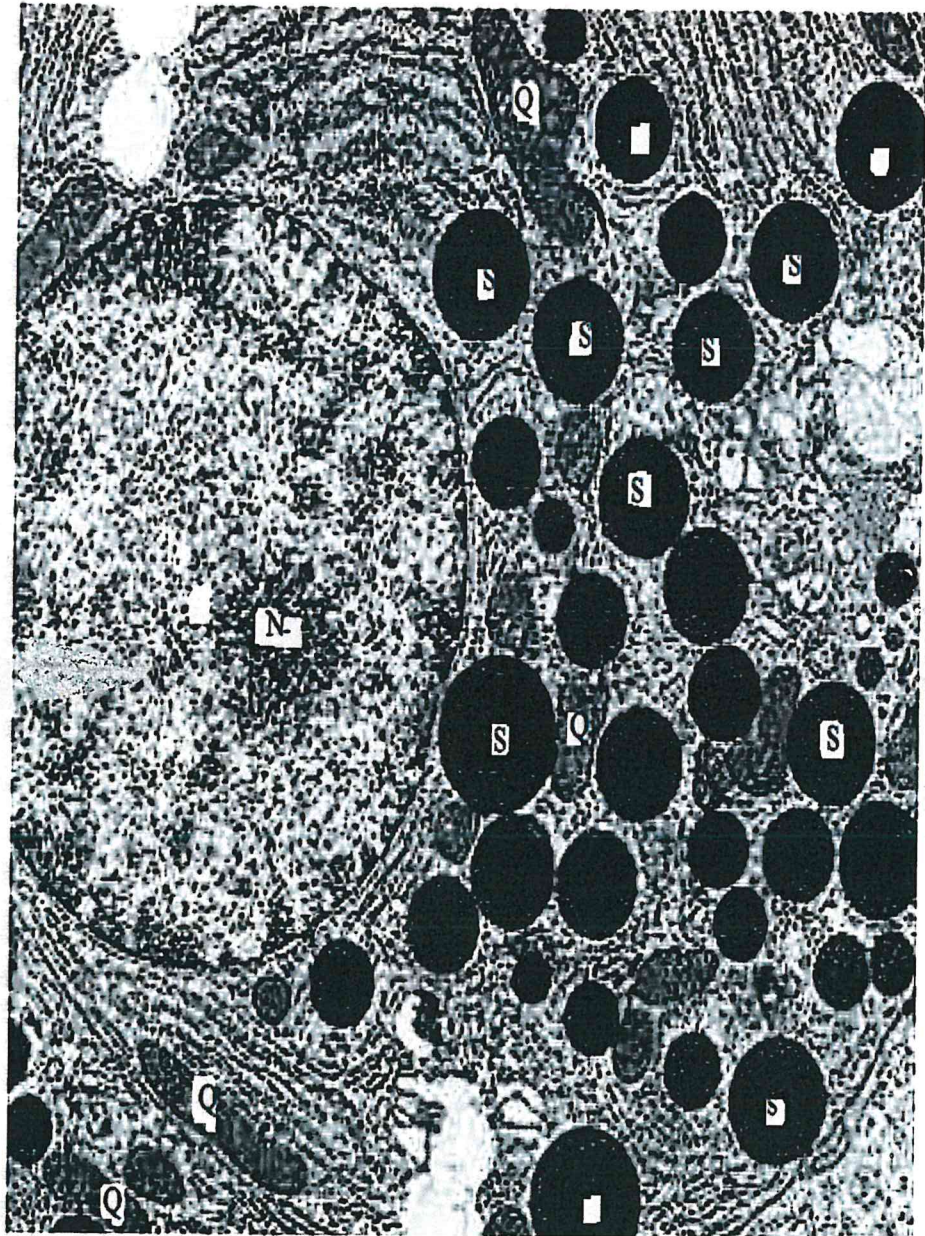
(2 marks)

.....

.....

.....

3. Below is a photomicrograph of a cell. Observe it and use it to answer the questions that follow.



a) i) Identify the type of cell (1 mark)

.....

ii) give reasons for your answer in a) i) above (1 mark)

.....

iii) Identify the organelle labeled N and Q and state the functions of each in the table (4 marks)

Organelle	Name	Function
N		
Q		

b) Account for the number of organelle Q that would be found in a sperm cells (2 marks)

.....

.....

.....

.....