

**KENYA NATIONAL EXAMINATION COUNCIL**

# **KCSE 2009**

**BIOLOGY**

**PAPER 3**

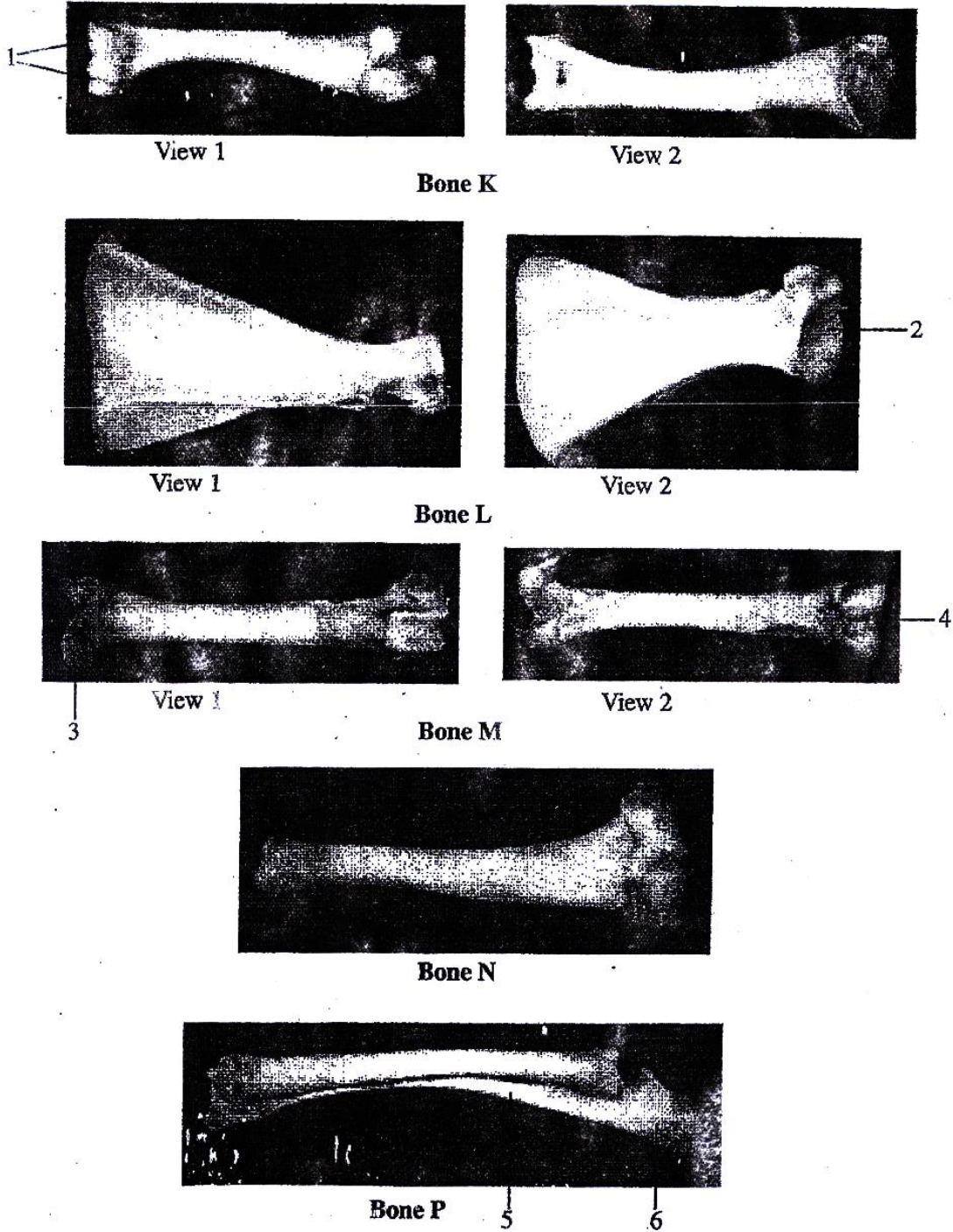
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## **Schools Net Kenya Consultancy**

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The photographs labeled K L, M, N and P below are of bones obtained from a mammal for each of the bones K, L and M two views are shown



Identify the bones and name the part of the mammalian body from which each was obtained

Body	Identity of the bone	where found
K	.....	.....
L	.....	.....
M	.....	.....
N	.....	.....
P	.....	.....

Name the parts labeled 1,2,3,4 and 5 ( 5 mks)

1. ....
2. ....
3. ....
4. ....
5. ....

Name the bones that form a joint with bone K at its anterior and posterior and in each case name the type of joint they form ( 4 mks)

(i) Bone(s) .....

(ii) Type of joint .....

Posterior end

(i) Bone (s) .....

(ii) Type of joint .....

State the function of the structure labeled 6 in bone P ( 1 mks)

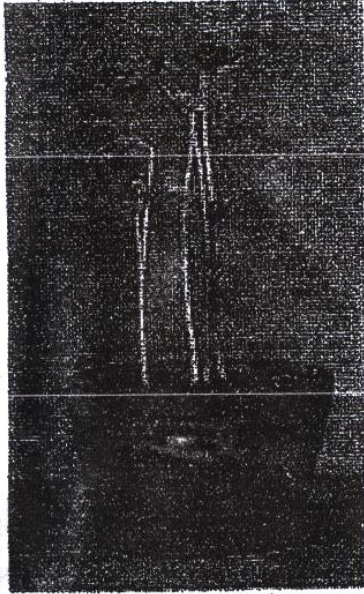
2. You are provided with substances labeled P,Q,X,Y and Z. P and Q are food substances, while X is dilute hydrochloric acid, Y is dilute sodium hydrogen carbonate and Z is Benedict's solution. Carry out tests to determine the food substance (s) in P and Q.

( 12 mks)

Substance	Food substances being tested for	Procedure	Observations	Conclusions
P				

Q				

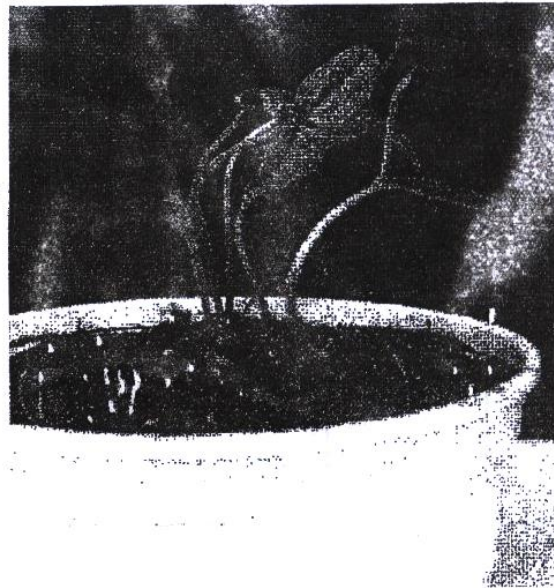
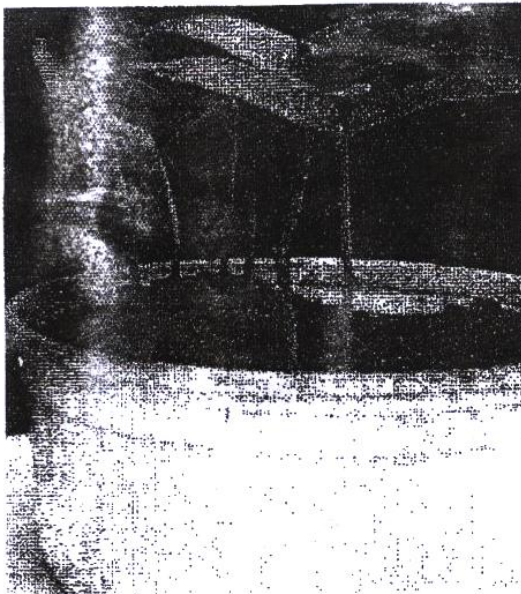
3. The photographs labeled W, X, Y and Z show seedlings that were grown under different conditions. Examine them



W



X



Using observable features only state three differences between the seedling in photographs W and X ( 3 mks)

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

Seedlings in photographs Y and Z were planted at the same time but under different conditions.

Explain how the response exhibited by the seedlings in photographs Z occurred.

( 2 mks)

**ANSWERS:**

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