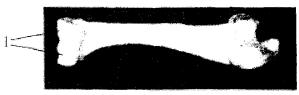
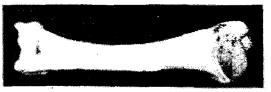
29.4.3 Biology Paper 3 (231/3)

1 The photographs labelled 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.

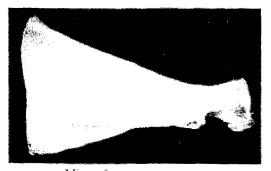


View 1

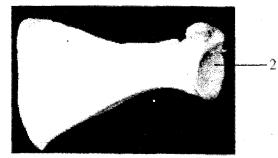




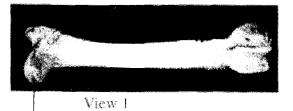




View 1









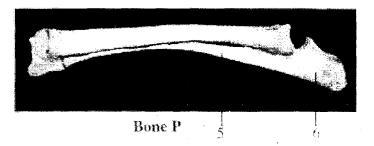


Bone M

Bone L



Bone N



	ne	Identity of the bone		Where found
ĸ				
L		· · · · · · · · · · · · · · · · · · ·		•
M	• .		٩	
N				
р		******		
Na	me the par	rts labelled 1, 2, 3, 4 and 5.		(5 marks
1				
2	******	****	*******************	• .
3	经销售费息收销销	******		
• 4	*****	· · · · · · · · · · · · · · · · · · ·		*
5	** *** * * **			
		me the type of joint they form.		nterior and posterior end and in (4 marks
	стют сна			
	Bone		\$#\$\$X\$\$\$\$	
An	Bone	(s)		
An (i) (ii)	Bone	(s)		
An (i) (ii)	Bone Type	(s) of joint		

(a) Identify the and name the part of the mammalian body from which ch wae 2 Idea step to stilled with substances labelled P, Q, X, Y and Z. P and Q are food substances, while X is critical hydrochloric acid, Y is dilute sodium hydrogenearbonate and Z is Benedict's solution. Is any out tests to determine the food substance(s) in P and Q.

(12 marks)

⁶ mananan an	Food substance being tested for	Procedure "	Observations	Conclusion
р				
Q				
	and the second	, 		

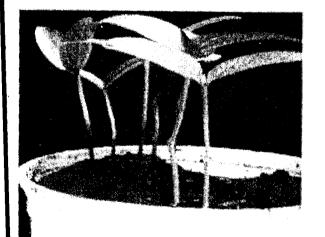
The photographs labelled W, X, Y and Z show seedlings that were grown under different conditions. Examine them,



3

· W

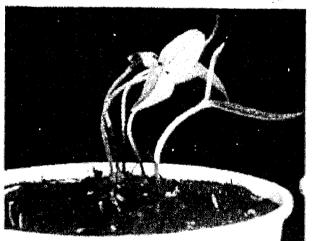




Y

(E)

th)



Z

Label any three parts of the seedlings in photograph W. (i) Name the type of germination exhibited by the seedlings.

(ii) Give a reason for your answer in b(i) above.

(3 marks) (1 mark) (1 mark)

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(e)	Seedlings in photographs W and X were planted at the same time.					
•	State the conditions under which the seedlings were grown. (2 marks)					
*	Seedlings in photograph W					
	Seedlings in photograph X					
(d)	When plants are grown in the condition named for seedlings in photo they exhibit a certain phenomenon.	graph W,				
	(i) Name the phenomenon.(ii) State the significance of the phenomenon named in d(i) above.	(1 mark) (1 mark)				
(e)	Using observable features only state three differences between the see photographs W and X.	dlings in (3 marks)				
(1)	Seedlings in photographs \mathbf{Y} and \mathbf{Z} were planted at the same time but conditions. Explain how the response exhibited by the seedlings in phoccurred.	under different otograph Z (2 marks)				

Π