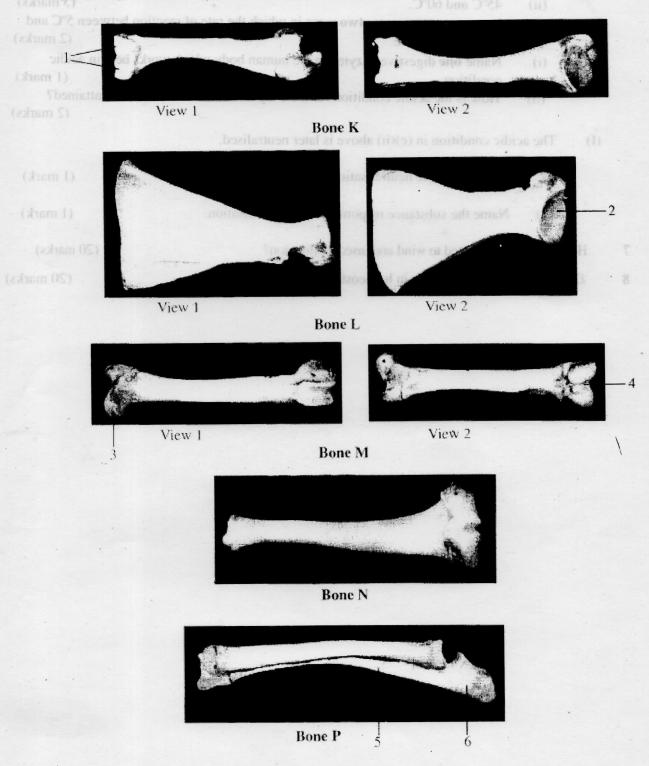
## 29.4.3 Biology Paper 3 (231/3)

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.

Account for the shape of the graph between:



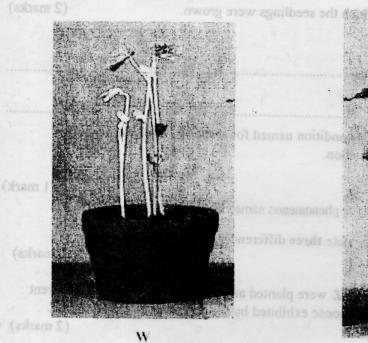
Bon	a Id	entity of the bone		M/h and Carry	
DUR	10	entry of the bone		Where found	1
K	••••	27.4.C.C.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*****	********	*******
L			. 1		
L)	••••	**************************************	п <b>т т т т т т т т т т т</b> т т т т т т т т	************************************	हिन्दित्राच्यां सम्बद्धाः सम्बद्धाः सम्बद्धाः च क
M		***************************************	*******	***************************************	
N	****	*******************************	•		****
P		***************************************			
Nam	e the parts la	belled 1, 2, 3, 4 and 5.	*********	ее вих и и е с « и в » » в ее и Жихии и н н н н	(5 marks)
1	***********				
2				,	
<b>.</b>	п <b>н</b> † † <b>* * п</b> п п п п ф ф ф ф ф ф ф ф ф ф ф ф ф ф	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*************************	*********************	
3	***********	***************************************	***********************	777774414488888888888888888888888888888	
. 4	****************		4.4444 4 6 6 6 6 6 8 8 8 8 8 8 8 8 8 8 8 8	. * * * * * * * * * * * * * * * * * * *	
5					
	***************************************	*******************************	4+++++++		***************
Nam	e the bones t	hat form a joint with bo	ne <b>K</b> at its anterio	or and posterior	end and in
each	case name the	e type of joint they form	n		(4 marks)
(i)	Bone(s)	>*****************************			
(ii)		int			•
, ,	erior end		************************		*****************
-	Bone(s)			************************	
(i)				****************	

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

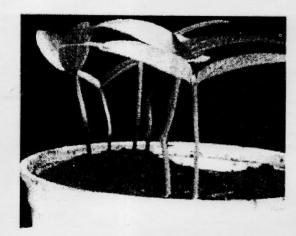
(12 marks)

ID.	for	Procedure "	Observations	Conclusion
P	A COMMITTED TO A COMM			•
	ALI BELLA ALIBERTA DE LA COLOR		and our diseases	g diagram and
,				
Q				
	The second secon	•		

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









Y

(a) Label any three parts of the seedlings in photograph W.

(3 marks)

(b) (i) Name the type of germination exhibited by the seedlings.

(1 mark)

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

(1 mark)

(c)	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 photogothey exhibit a certain phenomenon.	graph <b>W.</b>
	(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 seed photographs W and X.	dlings in (3 marks)
<b>(f)</b>	Seedlings in photographs Y and Z were planted at the same time but v conditions. Explain how the response exhibited by the seedlings in photographs	inder different otograph Z (2 marks)