

**Primary Three  
Science  
Semestral Assessment Two**

**Section A (30 x 2 marks)**

**Choose the best option for each question and write its number in the brackets provided.**

1. The organs form a spherical system in our body .Which group of organs shown in the table below is placed correctly?

	Respiratory System	Digestive System	Circulatory System
(1)	Backbone	Heart	Blood vessels
(2)	Nose	Small intestine	Lungs
(3)	Gullet	Windpipe	Heart
(4)	Lungs	Rectum	Blood vessels

2. Which of the following is/ are the function(s) of our tongue?

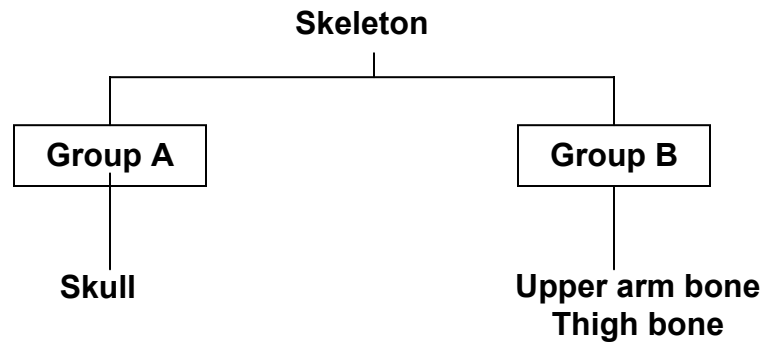
- A: Enables us to taste our food.  
B: Mixes the digestive juice with the food.  
C: Helps us to roll up the food into small balls before swallowing.

- ( 1 ) A only  
( 2 ) A and B only  
( 3 ) A and C only  
( 4 ) A, B and C

3. Which of the following statements is **true** ?

- ( 1 ) Our skulls help us to move our heads.  
( 2 ) When our muscles push our bones, it brings about movement.  
( 3 ) Muscles are found in our gullet and heart.  
( 4 ) We can use our hands more effectively if there are fewer joints in them.

4. Study the classification table below.



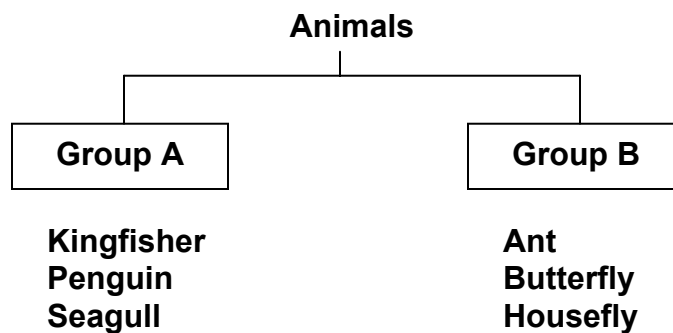
Which of the following should be placed in Group A and Group B ?

	Group A	Group B
(1)	Finger bones	Rib cage
(2)	Finger bones & Rib Cage	None
(3)	None	Finger bones & Rib Cage
(4)	Rib cage	Finger bones

5. What happens to the undigested food in our body ?

- ( 1 ) It is used to give us energy
- ( 2 ) It is passed out through the anus.
- ( 3 ) It is further digested in the large intestine.
- ( 4 ) It is stored in the mouth .

6. Study the classification table below:



Which of the following statements are true of both groups of animals ?

- A: All of them have wings
- B: All of them have legs.
- C: All of them lay eggs.

- ( 1 ) A and B only
- ( 2 ) A and C only
- ( 3 ) B and C only
- ( 4 ) A,B and C

7. Which of these statements are true about a magnet ?

- A : A magnet is made of iron or steel.
- B: The poles of a magnet have the strongest attraction.
- C: A magnet attracts all kinds of materials.

- ( 1 ) A and B only
- ( 2 ) B and C only
- ( 3 ) A and C only
- ( 4 ) B and D only

8. Tom has brown eyes, just like his father. This is due to \_\_\_\_\_.

- ( 1 ) colouration
- ( 2 ) fertility
- ( 3 ) reproduction
- ( 4 ) heredity

9. People can be identified accurately by \_\_\_\_\_.

- ( 1 ) the colour of their skin
- ( 2 ) their weight and size
- ( 3 ) their thumbprint
- ( 4 ) their eye colour.

10. Which one of the following below us not a living thing?

- ( 1 ) Seeds
- ( 2 ) Cooked beans
- ( 3 ) Cats
- ( 4 ) Micro-organisms

11. Anthony tried to make a magnet attract another object . He was frustrated when he could not do it, What could be the possible explanation?

- A: The object was made of iron.
- B: The object was made of steel.
- C: The object was made of aluminium.
- D: The object was made of copper.

- ( 1 ) A only
- ( 2 ) B only
- ( 3 ) A and C only
- ( 4 ) C and D only

12. Alex was given a magnet and asked to separate two materials. He found that he was unable to separate them. What do you think the two materials are?

- ( 1 ) Needles and plastic clips
- ( 2 ) Iron filings and sand
- ( 3 ) Iron nails and needles
- ( 4 ) Rice and iron filings

13. Which one of the following statements is true of plants and animals ?

- ( 1 ) They both grow and die.
- ( 2 ) They both can make their own food.
- ( 3 ) They both move about to get food.
- ( 4 ) They both give birth to their young.

14. David had fried rice for lunch . Which parts of the digestive system shown below have digestive juices to digest the food he ate?

- A : Mouth
- B: Gullet
- C: Stomach
- D: Small intestine
- E: Large intestine

- ( 1 ) B only
- ( 2 ) A, B , C and D only
- ( 3 ) C, D and E only
- ( 4 ) A, C and D only

15. Which of the following part(s) mentioned below enable us to move our body ?

- A: Joints
- B: Muscles
- C: Bones

- ( 1 ) B only
- ( 2 ) A and C only
- ( 3 ) B and C only
- ( 4 ) A,B and C

16. Which one of the following is a mammal that lays eggs?

(1)



Platypus

(2)



Whale

(3)



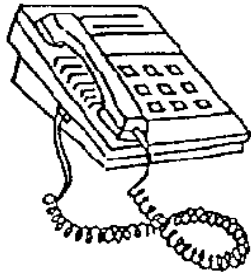
Rabbit

(4)



Dolphin

17. What do the objects shown below have in common?



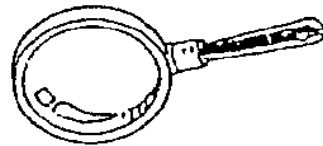
Telephone



Feather duster



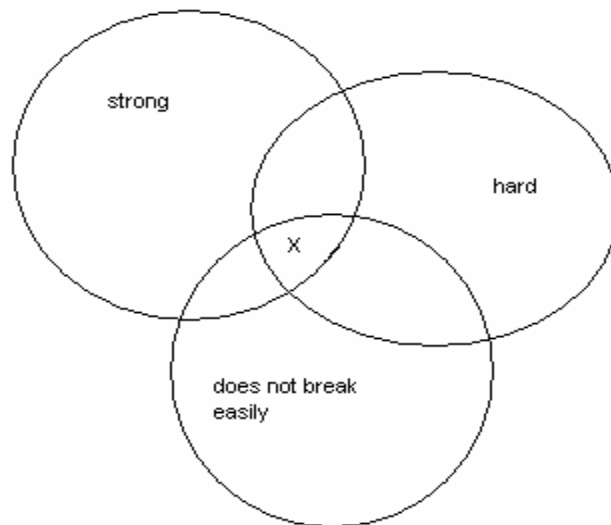
Aluminium pot



Magnifying lens

- (1) They are all made of metal.
- (2) They are all made of natural materials.
- (3) They are all made of more than one material.
- (4) They do not break when dropped.

18. Study the Venn diagram below.

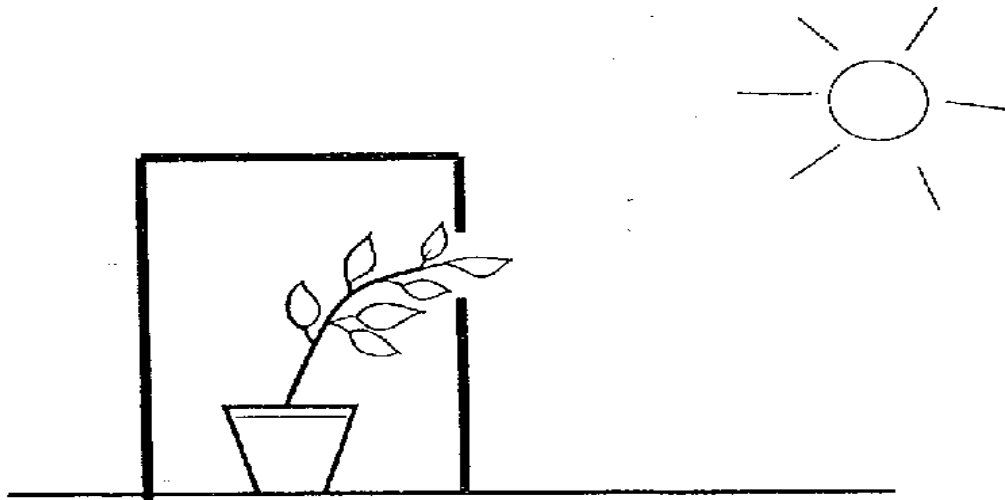


Which of the following materials can be used to make object X?

- A : Ceramics
- B: Leather
- C: Metal
- D: Glass

- ( 1 ) C only
- ( 2 ) A and D only
- ( 3 ) A,C and D only
- ( 4 ) A,B , C and D only

19. Sally puts a box over her pot of plant . There is a hole on one side of the box. This is what the plant looks like a few days later.



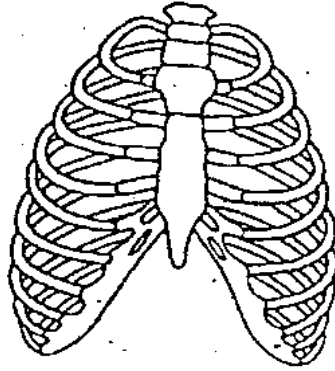
What can you say about the plant from the experiment above?

- A: The plant is responding to sunlight.
- B: The plant bends to get water.
- C: The plant needs sunlight to grow.
- D: The plants bends to get air.

- ( 1 ) A and D only
- ( 2 ) A and C only
- ( 3 ) B and C only
- ( 4 ) B and D only



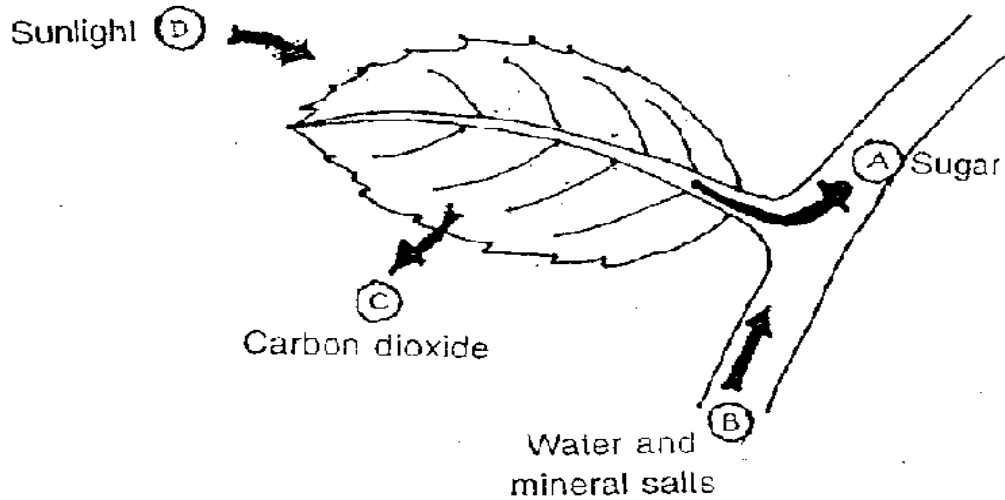
20. Which of these organs are protected by the bones shown in the diagram above?



- A: brain  
B: lungs  
C: heart  
D: spinal cord

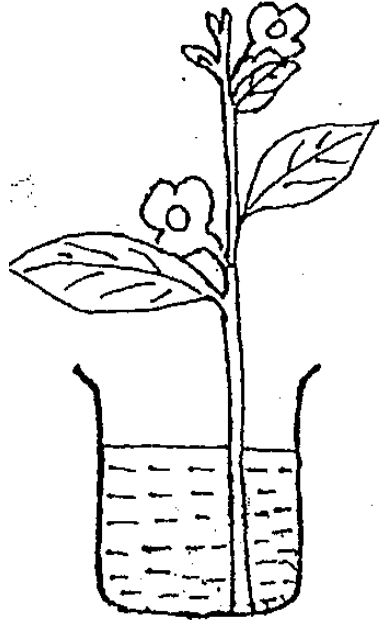
- (1) A and D only  
(2) A and C only  
(3) B and C only  
(4) B and D only

21. The diagram below shows a process taking place in a green plant. Which arrow is **wrongly** labelled?



- (1) A  
(2) B  
(3) C  
(4) D

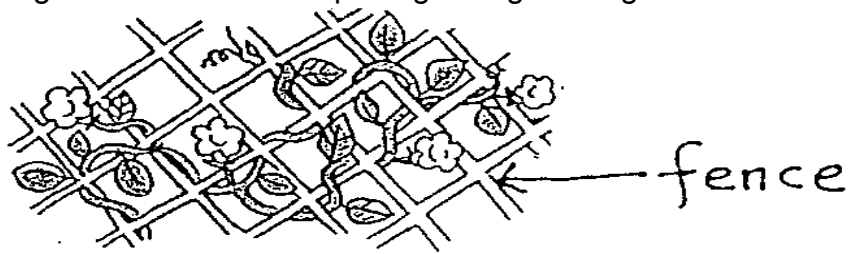
22. Mary puts a plant with white flowers into a beaker of water which is coloured blue. A few hours later, she observes that the flowers turn from white to blue.



What does this experiment above show?

- ( 1 ) The roots carries water to the rest of the plant.
- ( 2 ) The stem carries water to the rest of the plants.
- ( 3 ) Water is taken in by the plant through its roots.
- ( 4 ) Water is taken in by the plant through the stem.

23. The diagram below shows a plant growing in the garden.

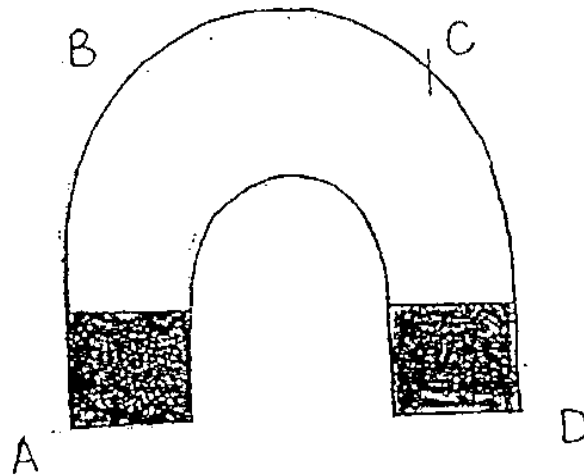


Based on the diagram, which of the following statement( s) is/are **true** ?

- A: The plant has no leaves.
- B: The plant has fruits.
- C: The plant has a weak stem.

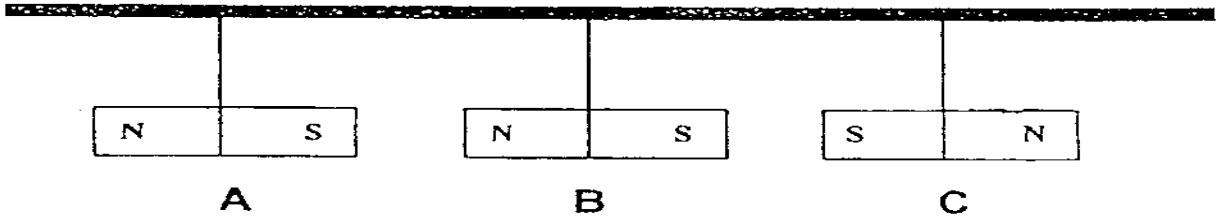
- ( 1 ) B only
- ( 2 ) C only
- ( 3 ) A and C only
- ( 4 ) B and C only

24. The poles of the magnet shown are at \_\_\_\_\_.



- ( 1 ) A and D
- ( 2 ) B and C
- ( 3 ) A and B
- ( 4 ) C and D

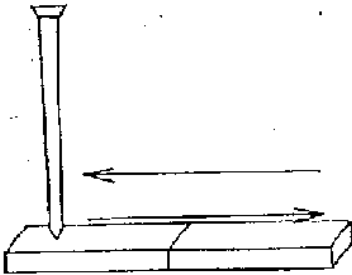
25. What will happen when three bar magnets are hung in the manner as shown below?



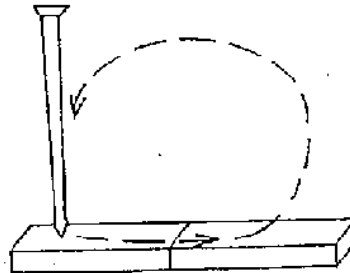
- ( 1 ) Nothing will happen.
- ( 2 ) Magnet B will turn round and round.
- ( 3 ) Magnet B will move towards Magnet C.
- ( 4 ) Magnet B will move towards Magnet A.

26. Which one of the following diagrams shows the correct way of making a magnet out of a nail.

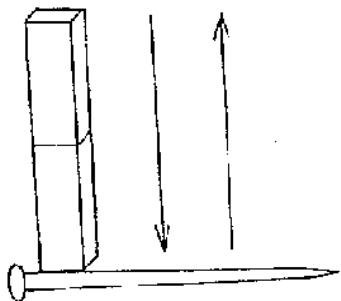
(1)



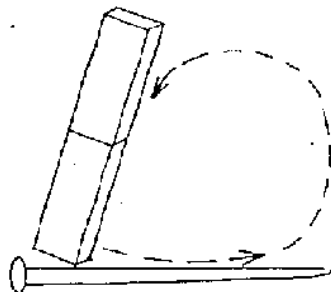
(2)



(3)

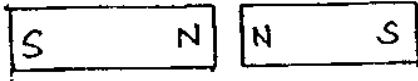


(4)



27. Two magnets are placed close to each other . Which one of the sets shown below will attract each other ?

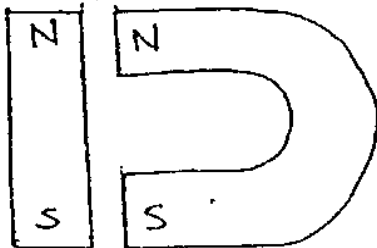
(1)



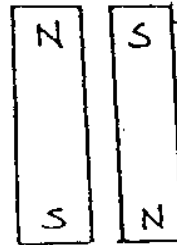
(2)



(3)



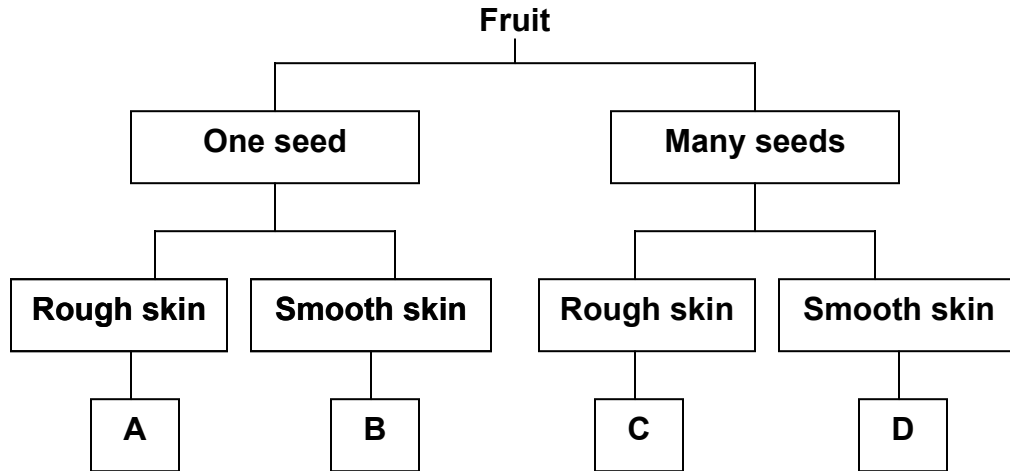
(4)



28. Study the table.

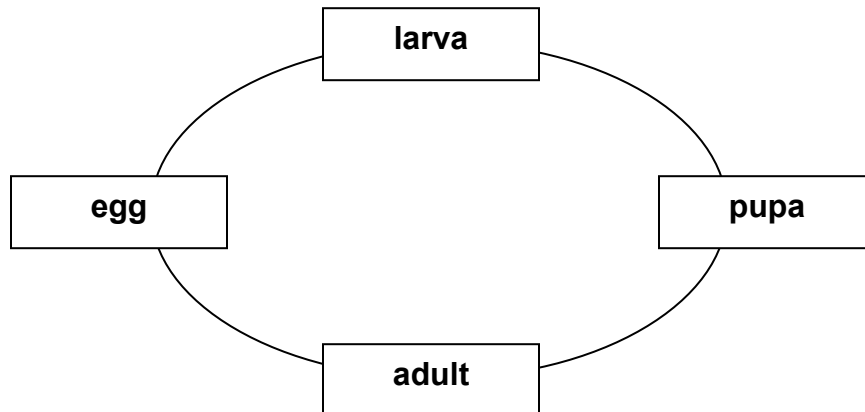
Fruit	One seed	Many Seeds	Rough Skin	Smooth Skin
P	√		√	
Q		√		√

Where would you place Fruit P and Fruit Q in the classification table below?



	Fruit P	Fruit Q
(1)	A	C
(2)	A	D
(3)	B	C
(4)	B	D

29. The diagram below shows the different stages in a life cycle.



Which of the following animals go through the life cycle shown above.

- A: mosquito
- B: cockroach
- C: butterfly
- D: chick

- (1) A and D only
- (2) A and C only
- (3) B and C only
- (4) B and D only.

30.



Dragonfly



Butterfly



Ant

Which one of the following is **not** a characteristic of all the animals shown above ?

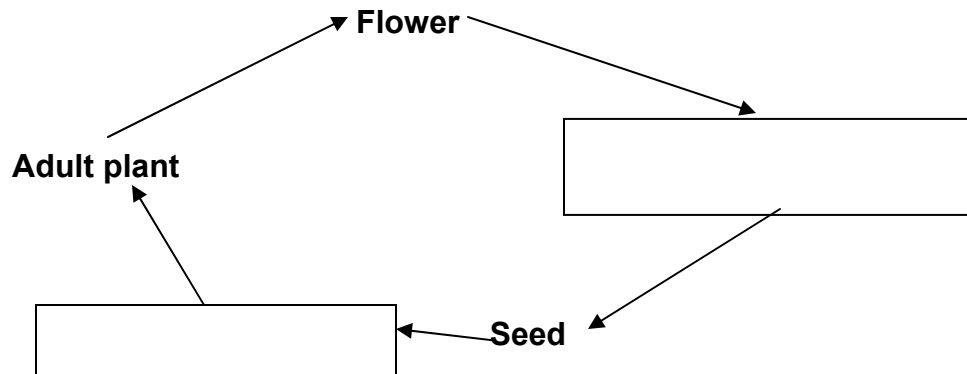
- (1) They all have wings.
- (2) They all have six legs.
- (3) They all have segmented bodies.
- (4) They all have feelers.

**Section B (40 marks)**

**Write your answers in the spaces provided.**

31. The diagram below shows the life cycle of a brinjal plant.

(a) Two of the stages are missing. Fill in these two missing stages in the boxes given ( 1 m each )

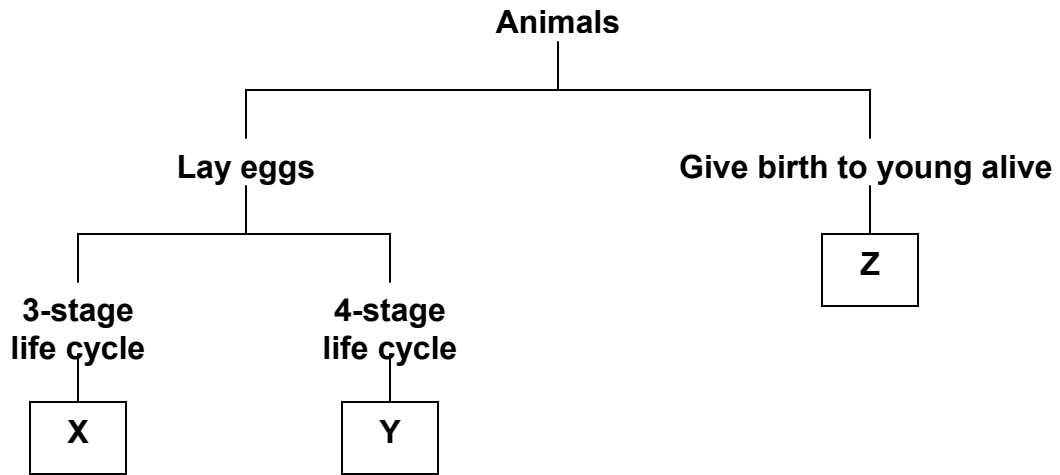


( b ) Tick two other plants that go through the same life cycle as the brinjal plant. ( 1 m )

Plant	
Chilli plant	
Bird Nest Fern	
Onion	
Mango	



32. Study the classification table below

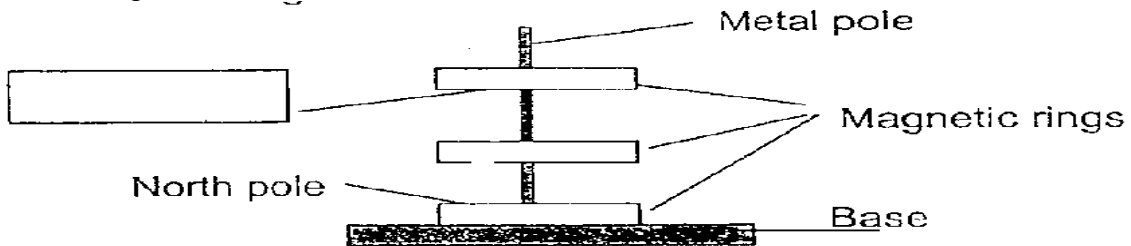


Which box in the table above represent the following animals.

Housefly: \_\_\_\_\_ ( 1 m )

Chicken : \_\_\_\_\_ ( 1 m )

33. Three magnetic rings are places through a metal rod as shown in the diagram below.

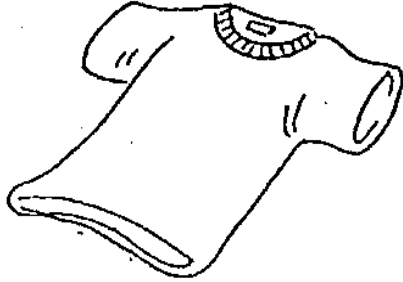


( a ) Explain why the three magnets are able to stay in this way. ( 1m )

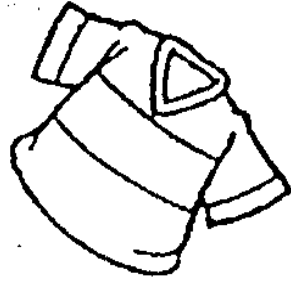
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( b ) Name the pole that is marked in the diagram. ( 1 m )

34.



T-shirt made of wool



T-shirt made of cotton

( a ) Which T-shirt is suitable for playing soccer on a hot day ? ( 1 m )

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( b ) Explain why you choose this T-shirt ? ( 1 m )

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35. Group the following items under the most appropriate headings in the classification table . ( 2 m )

Plastic watering can	Porcelain cup
Glass	Can opener

**Things**

**Break into pieces  
When hammered**

**Do not break into pieces  
When hammered**

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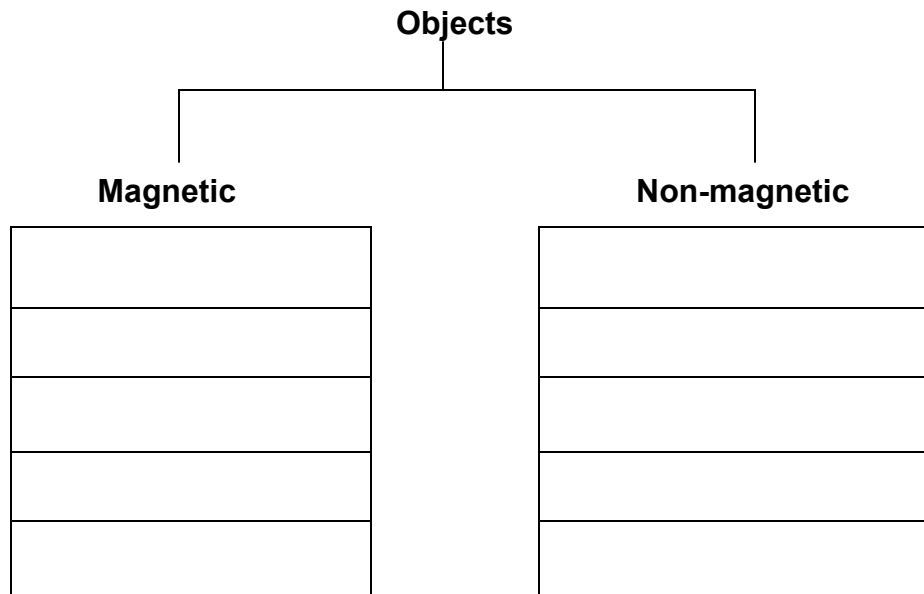
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36. Group these objects in the boxes given below. (1/2 m each )

chalk	compass needle	safety pin
basket	plastic fork	thumbtacks



37. Write down two properties of aluminium that makes it a suitable material for making cooking utensils. ( 2 m )

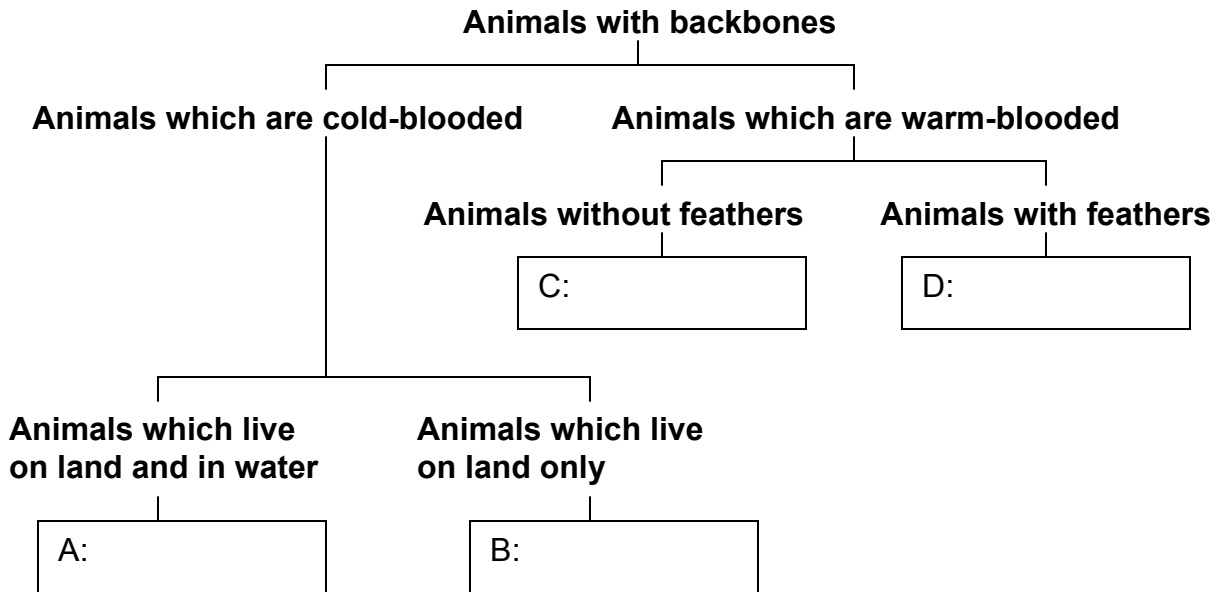
(i) \_\_\_\_\_

\_\_\_\_\_

(ii) \_\_\_\_\_

\_\_\_\_\_

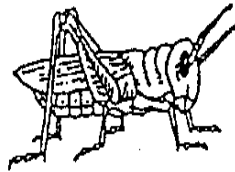
38. In the classification table below, A , B , C and D represent 4 different animals.



Fill in boxes A, B , C and D with words given in the box below. ( 2 m )

bat	kingfisher	frog
butterfly	lizard	cockroach

39.



The diagram above shows a grasshopper.

( a ) To which group of animals does it belong ? ( ½ m )

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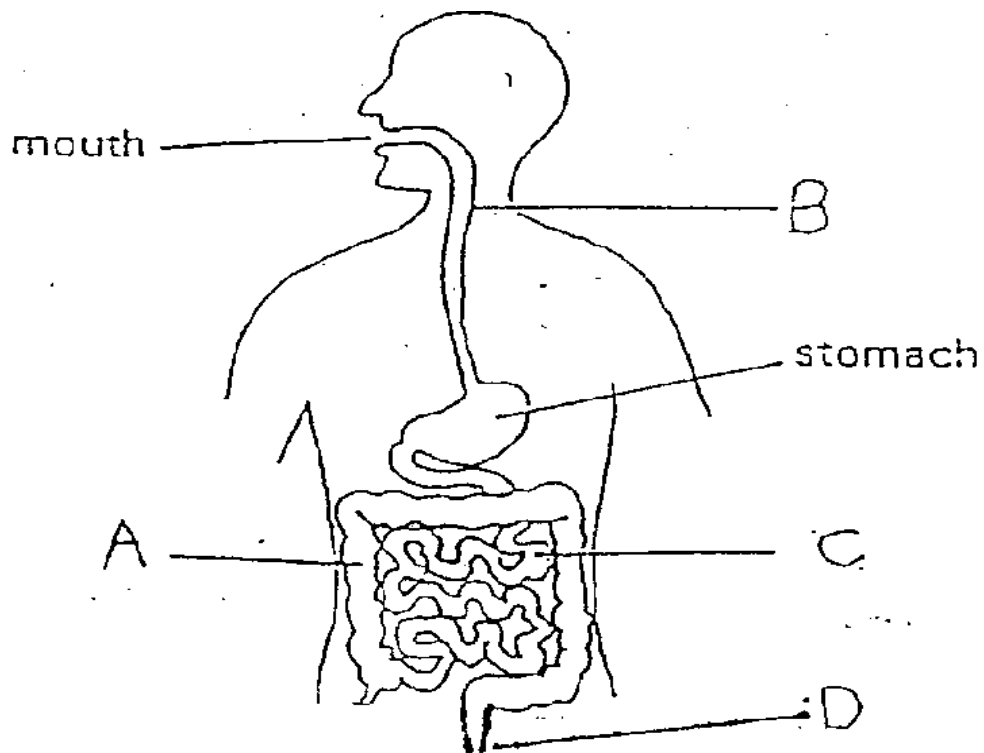
( b ) Name three common characteristics of all the animals found in this group.  
( ½ m each)

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(iii) \_\_\_\_\_

40. The diagram below shows the digestive system.



( a ) Name the parts labelled **A,B , C and D**. ( 2 m )

A:	
B:	
C:	
D:	

( b ) What happens to the digested food in Part C ?( 1m )

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( c ) In which part of the digestive system is water absorbed from the undigested food? ( 1m )

Put a tick (  $\checkmark$  ) in the correct box.

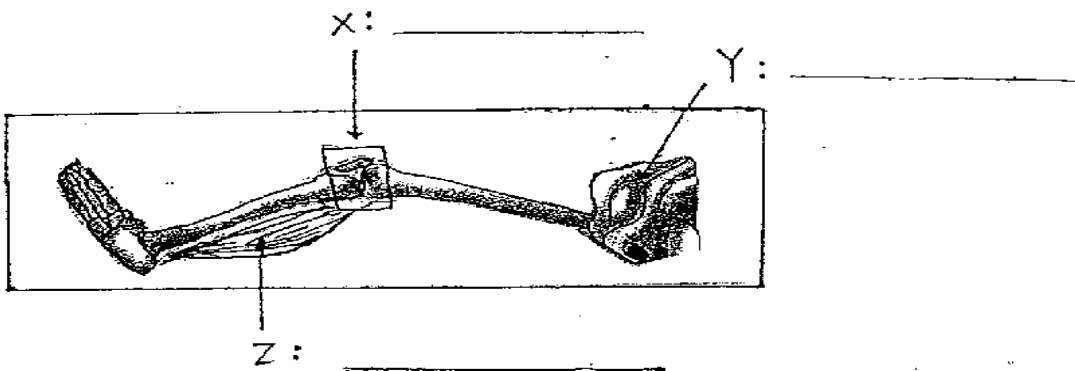
A

B

C

D

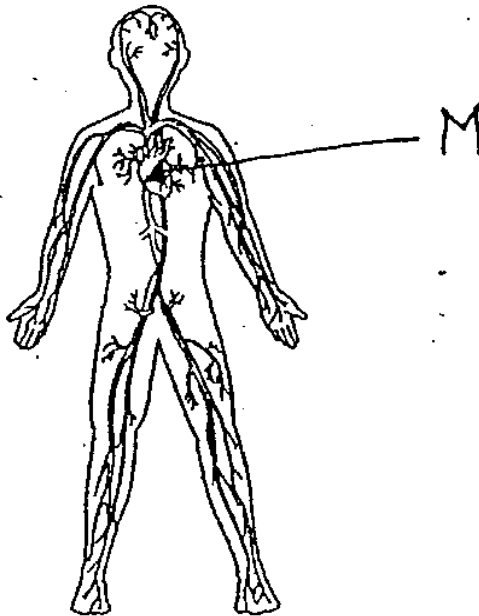
41. The diagram below shows the leg bones.



Use the words given in the box below and name the three parts that are labelled in the diagram .( 3 m )

Joint	Hip bone	muscles	ankle
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42. Study the diagram below.



(a) Name the above body system. (1m)

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(b) Name the organ labeled **M**. (1m)

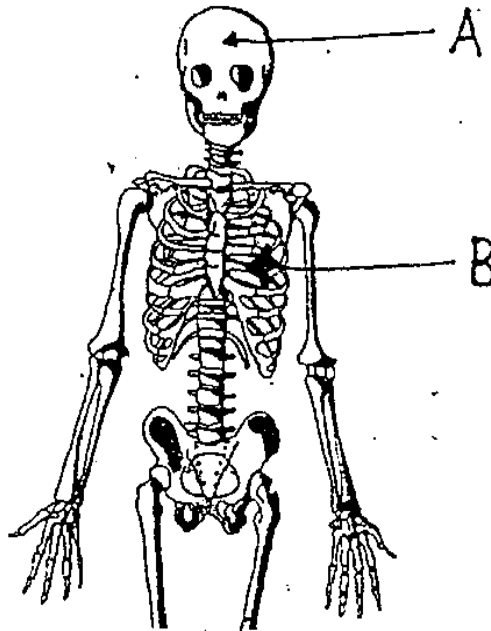
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(c) How is blood carried to all parts of our body? (1m)

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43. Study the diagram below.



(a) Name the bones that are marked in the diagram.

(i) A: \_\_\_\_\_ (½ m)

(ii) B: \_\_\_\_\_ (½ m)

(b) What is the function of Part A? (1m)

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(c) Fill in the blanks using the words given in the box. (1m)

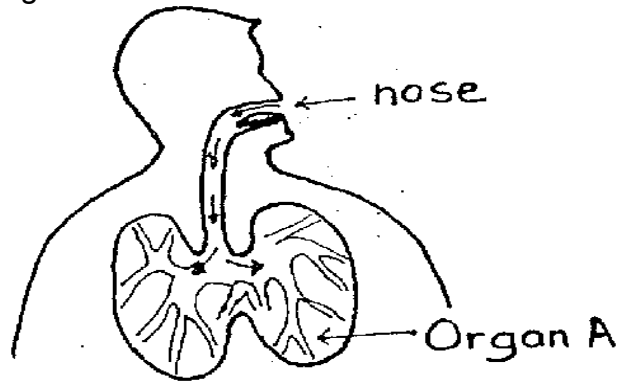
relax	push	contract
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Muscles \_\_\_\_\_ to pull the bones and

\_\_\_\_\_ to release the bones.



44. Study the diagram below.



(a) Name the above body system. (1m)

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(b) What is Organ A? (1m)

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(c) The gas that is given out by Organ A is useful to plants. Name this gas. (1m)

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45. In the table below, write down the part of the body where each of the process takes place. (2m)

	<b>Process</b>	<b>Part of the body where Process take place</b>
eg	The nosie in the hall is getting louder and louder	Ears
1.	There is a change in the brightness of the room.	
2.	There is a change in the temperature of the room.	
3.	Oxygen is breathed in and carbon dioxide is breathed out.	
4.	Food is taken in, cut into small pieces and then mixed with saliva	

46. Study the table below.

Animal	Body covering		Six legs	Lay eggs	Have wings	Live in water
	Hair	Scales				
Bat	√				√	
Butterfly			√	√	√	
Animal Z		√		√		√

(a) Based on the table above, write down **one common characteristic** between the butterfly and animal **Z**. (1m)

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(b) Which group of animal is **Z** likely to belong to? (1m)

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