



PRIMARY 3 MID-YEAR EXAMINATION 2015

Name : _____ () Date: 15 May 2015

Class : Primary 3 ()

Time: 8.00 a.m. to 9.00 a.m.

Parent's Signature : _____

Marks: _____ / 30

SCIENCE BOOKLET A

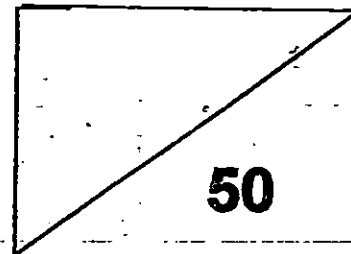
INSTRUCTIONS TO CANDIDATES

Write your name, register number and class.

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

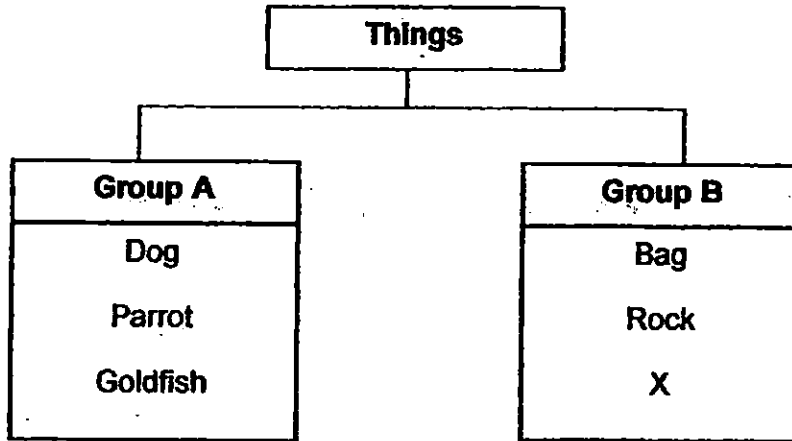
Answer all questions.



Section A (15 x 2 marks)

For each question, 1 to 15, choose the most suitable answer and shade its corresponding oval (1, 2, 3 or 4) in the optical answer sheet.

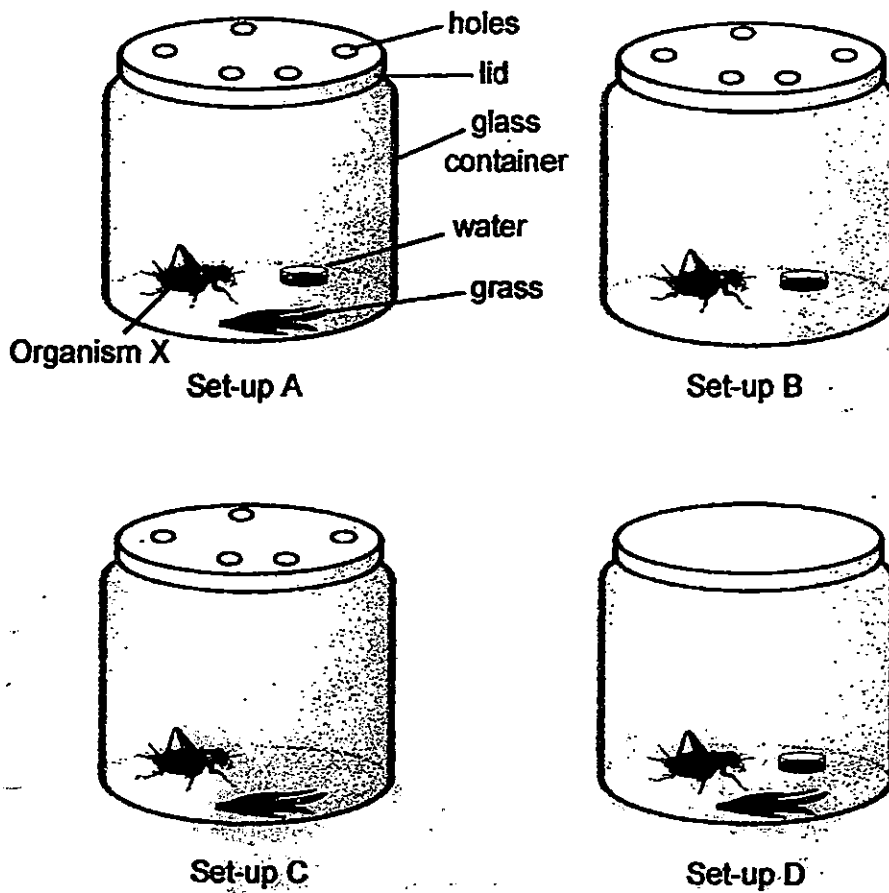
1. Study the classification chart below.



Which one of the following identifies Group A, Group B and X correctly?

	Group A	Group B	X
(1)	Can grow	Cannot grow	Kingfisher
(2)	Has hair	Does not have hair	Car
(3)	Need air, food and water	Does not need air, food and water	Chicken
(4)	Can reproduce	Cannot reproduce	Fan

2. John conducts an experiment to find out if Organism X needs water to stay alive. He prepares the following set-ups as shown below.



Which of the following set-ups should he use for his experiment?

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

3. Mark wants to group the plants below according to the way they reproduce. Which of the following plants does not belong to the same group?



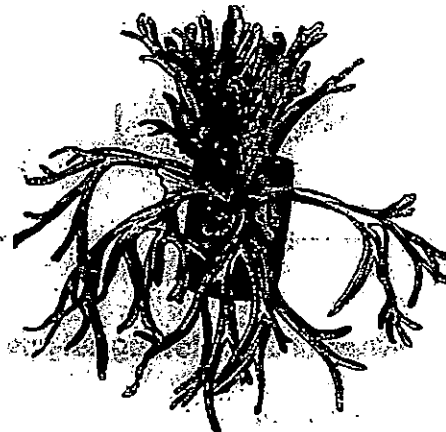
Hibiscus plant
(1)



Apple tree
(2)



Lily plant
(3)



Staghorn fern
(4)

4. The table below shows the characteristics of plants, P, Q, and R.
A tick (✓) shows that the plant has the characteristic.

Plant	P	Q	R
Has flowers	✓	✓	✓
Has edible fruits		✓	
Grows on land	✓	✓	

Which one of the following identifies these plants correctly?

	P	Q	R
(1)	Papaya	Water Lily	Pong Pong
(2)	Pong Pong	Papaya	Water Lily
(3)	Papaya	Pong Pong	Water Lily
(4)	Pong Pong	Water Lily	Papaya

5. Study the diagrams below.



Plant A

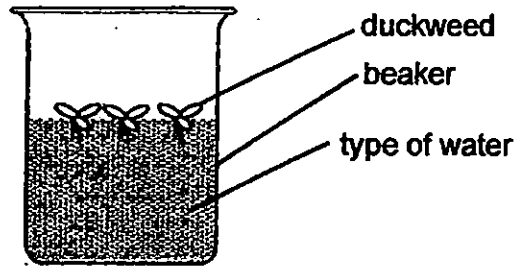


Plant B

Based only on the diagrams above, what can we conclude about Plant A and B ?

- (1) Plant A has no roots but Plant B has roots.
- (2) Plant A has a weak stem but Plant B has a strong stem.
- (3) Plant A produces edible fruits but B produces inedible fruits.
- (4) Plant A is a flowering plant but Plant B is a non-flowering plant.

6. Henry wanted to conduct an experiment to find out which type of water is best for the growth of duckweeds. He prepared 4 similar set-ups like the one shown below.



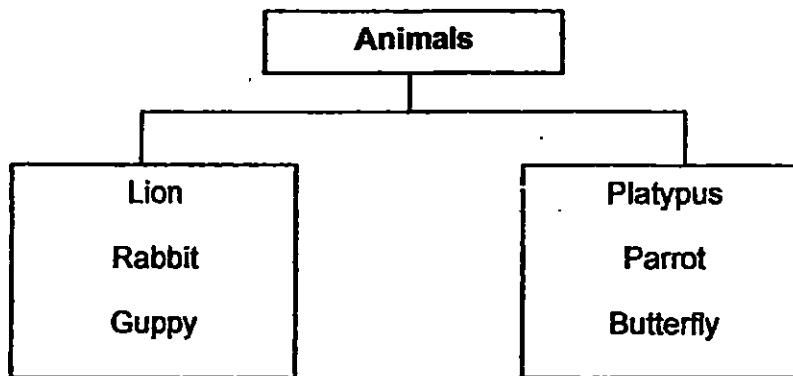
His results are recorded in the table below.

Type of water	Number of duckweeds on Day 1	Number of duckweeds on Day 5
Tap water	3	99
Pool water	3	24
Pond water	3	243
Boiled water	3	30

Which type of water do duckweeds grow best in?

- (1) Tap water
- (2) Pool water
- (3) Pond water
- (4) Boiled water

7. Study the classification chart below.



Which one of the following shows how the animals are classified?

- (1) where they live
- (2) how they breathe
- (3) their body covering
- (4) how they reproduce

8. Study the table below.

Group A	Group B	Group C	Group D
Goldfish	Bat	Ant	Frog
Tilapia	Monkey	Grasshopper	Salamander
Dolphin	Deer	Spider	Mudskipper

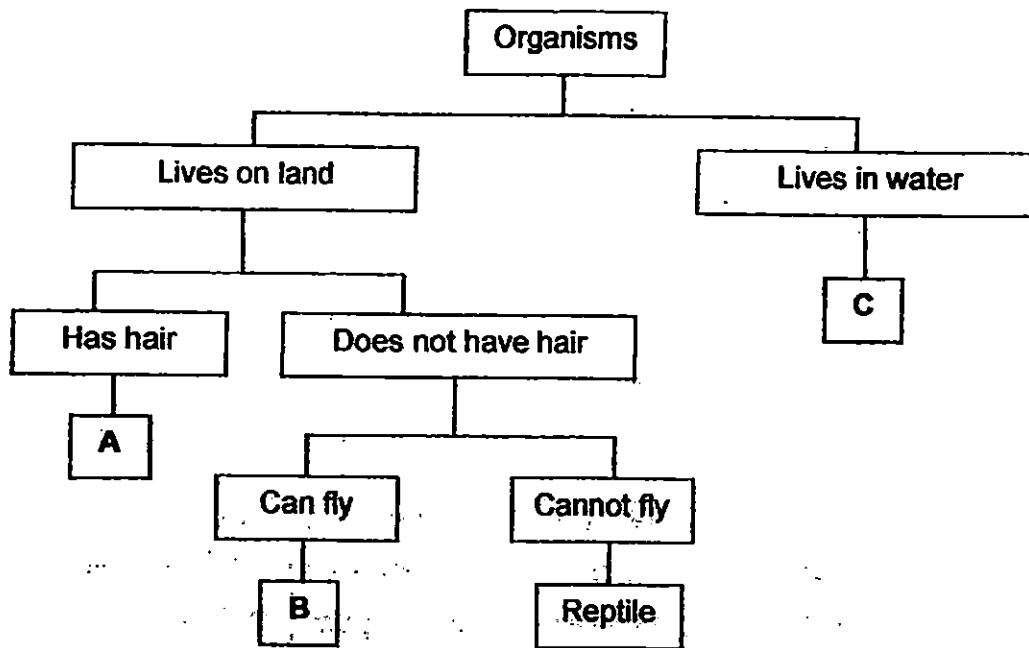
Which one of the following shows the groups that consist of animals which are wrongly classified in the same group?

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

9. Which of the following statements is true?

- 1) Scorpions are insects.
- 2) All animals that live in water are fishes.
- 3) Both reptiles and amphibians breathe through their skin.
- 4) Mammals are the only animal group that suckle their young.

10. Study the flowchart below.

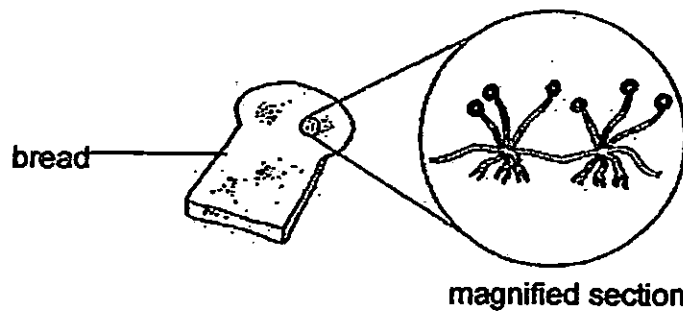


Which of the following correctly identifies A, B, and C ?

	A	B	C
1)	Mammal	Insect	Bird
2)	Bird	Fish	Insect
3)	Mammal	Bird	Fish
4)	Insect	Mammal	Fish

11. The table below shows the characteristics of organisms, A, B, C and D. A tick (✓) shows that the organism has the characteristic.

Organism	Makes its own food	Can only be seen under the microscope	Reproduces by spores
A	✓		
B		✓	✓
C	✓		✓
D		✓	



Which organism is shown in the magnified section of the diagram above?

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

12. Some students were discussing about bacteria and their characteristics.

Mark : All bacteria are harmful.

Jane : Bacteria are microorganisms.

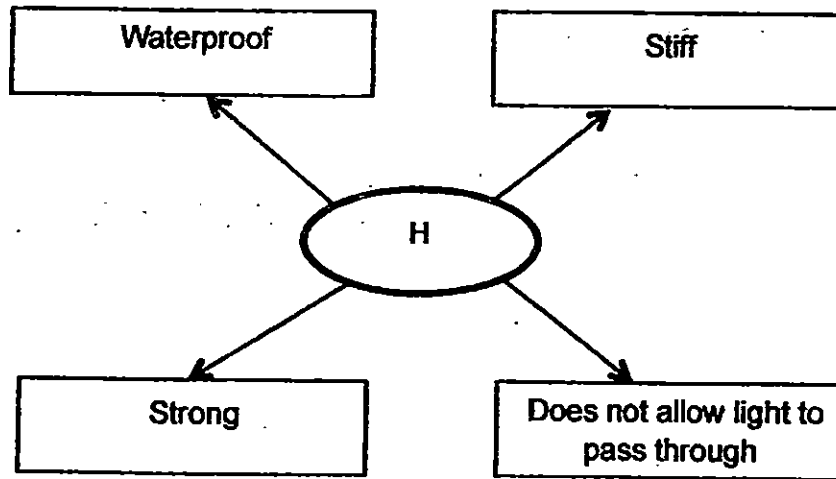
Rose : Bacteria can be found everywhere including in our bodies.

Dean : Bacteria reproduce by spores.

Who made the correct statement?

- 1) Jane and Rose
- 2) Jane and Dean
- 3) Rose and Dean
- 4) Mark, Rose and Dean

13. Study the diagram below which shows some characteristics of material H.



What can H be?

A : Clear glass

B : Ceramic

C : Fabric

D : Metal

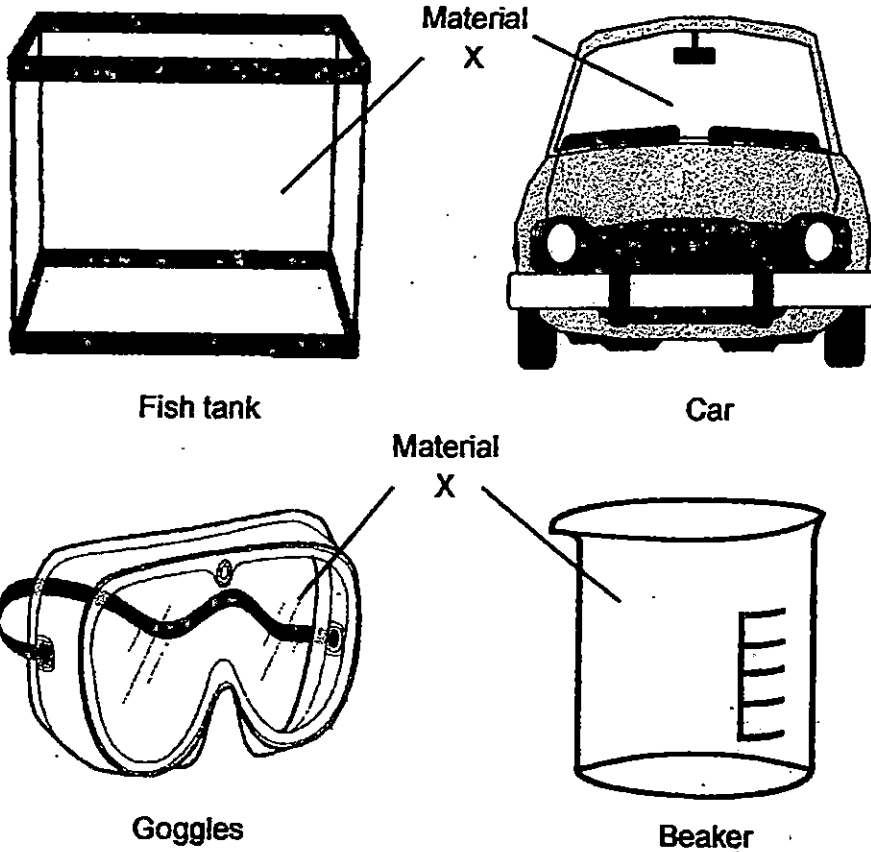
1) B and D only

2) A and C only

3) B and C only

4) A, B and D only

14. Study the objects below.



Which of the following properties must Material X have to make the objects above?

A : Flexible

B : Allows light to pass through

C : Floats on water

D : Strong

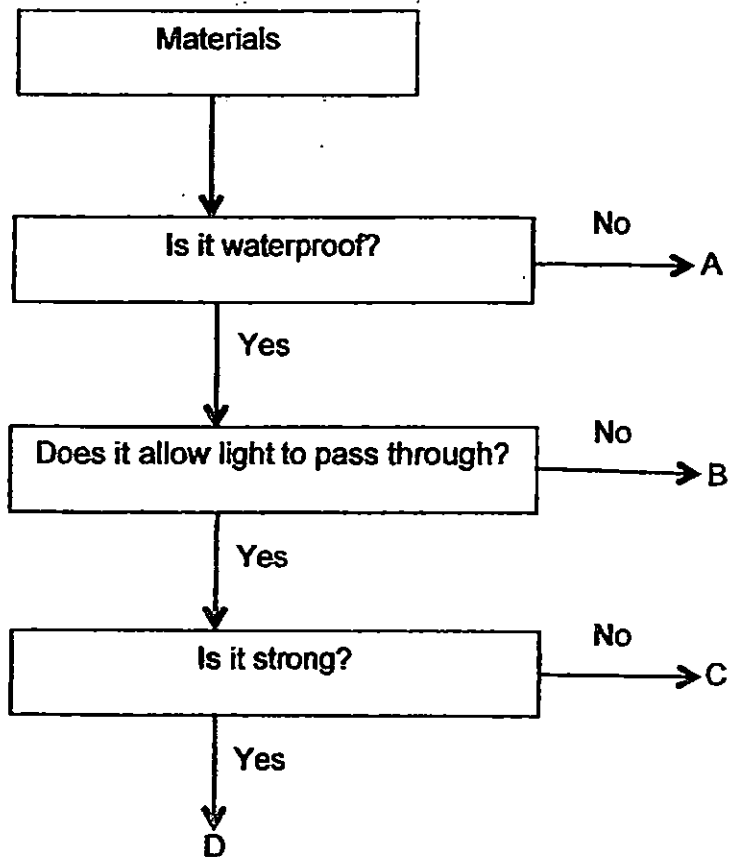
1) A and C only

2) B and D only

3) A and B only

4) B, C and D only

15. Study the flowchart below.



Which of the following objects is correctly matched to the material it is made of?

	Object	Material
1)	Frying pan	B
2)	Car tyre	A
3)	Pupil's desk	C
4)	Cardboard box	D



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SCIENCE BOOKLET B

INSTRUCTIONS TO CANDIDATES

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Answer all questions.

Section B (20 marks)

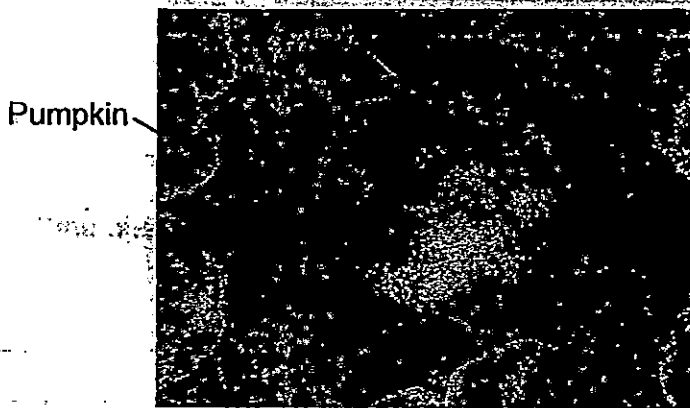
For the questions, 16 to 25, write your answers in the spaces provided.

16. Study the diagram below.

Things	
Group A	Group B
Water	Key
Yeast	Pencil
Ostrich	Umbrella

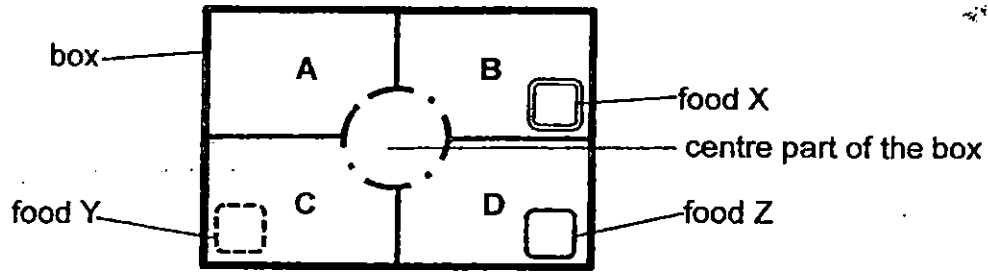
(a) Which item is classified wrongly? Explain your answer. (1m)

The diagram below shows a pumpkin plant.



(b) Which group should the pumpkin be placed in? (1m)

17. Ellen conducted an experiment to find out which type of food X, Y or Z, attracts the most number of ants. The diagram below shows the top view of the set-up that she prepared.



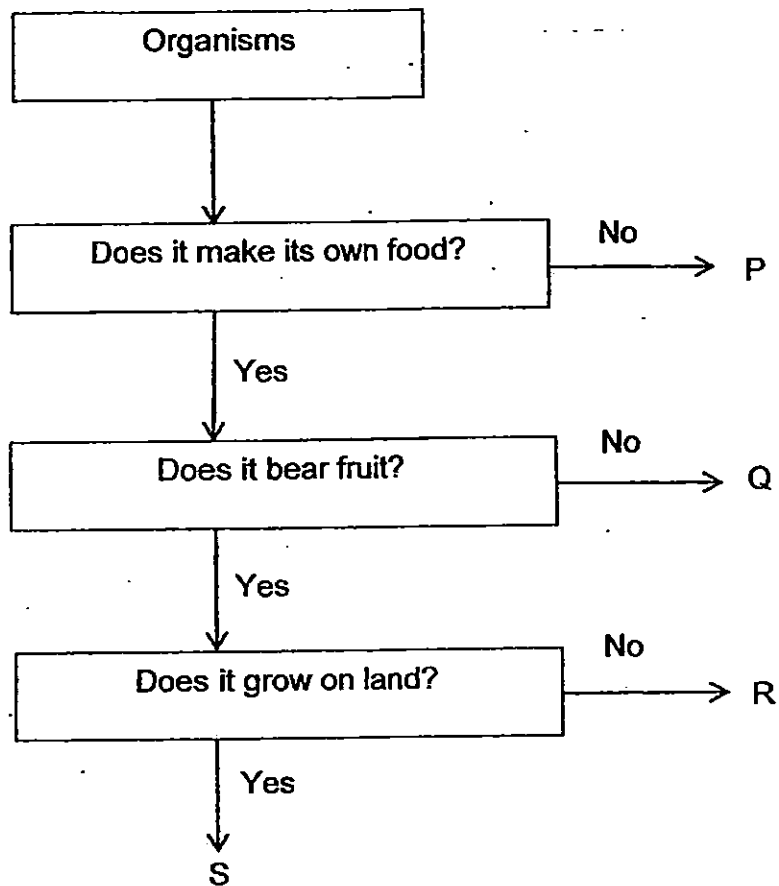
She released 50 ants in the centre part of the box and recorded the number of ants found in parts, A, B, C, and D after 1 hour. Her results are shown below.

Part of box	Type of food found in that part	Number of ants found in that part
A	No food	0
B	X	10
C	Y	25
D	Z	15

(a) What characteristic of living thing is shown in this experiment? (1m)

(b) Which type of food should Ellen use if she wants to attract the most number of ants? Explain your answer. (1m)

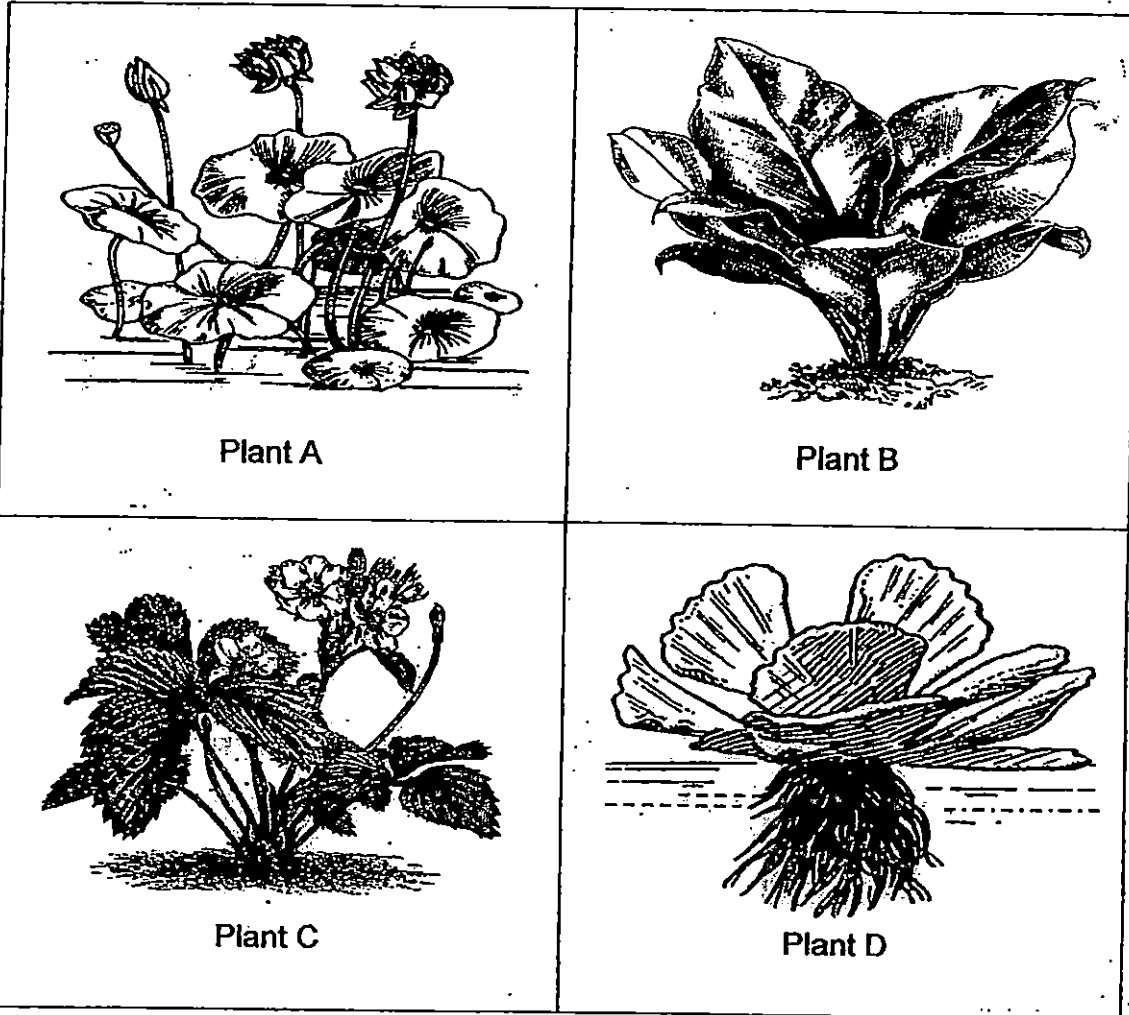
18. Study the flowchart below.



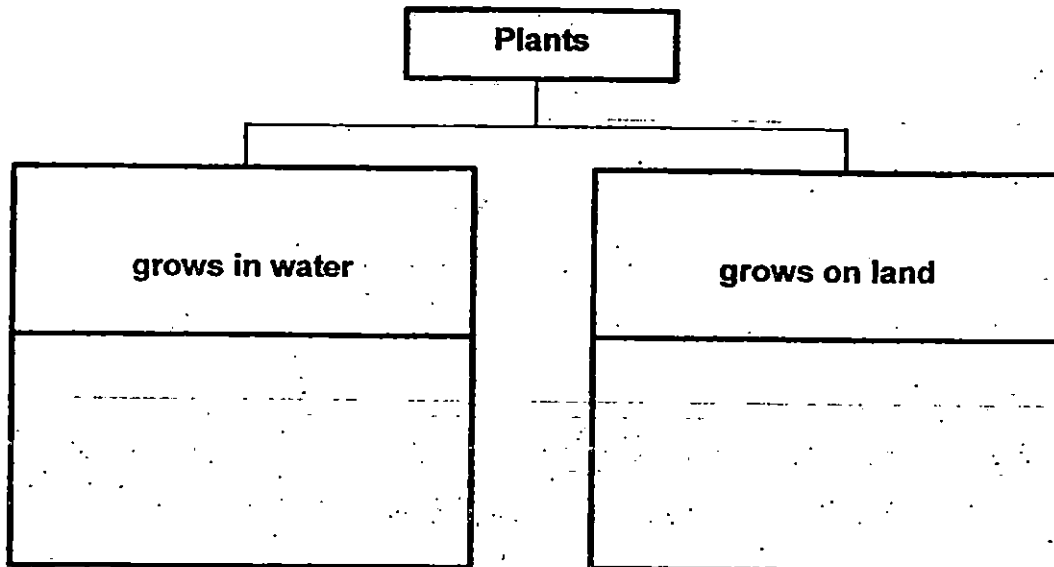
(a) Based on the flowchart, state all the characteristics of Q. (1m)

(b) Which letter, P, Q, R or S, can represent a mango tree? Explain your answer. (1m)

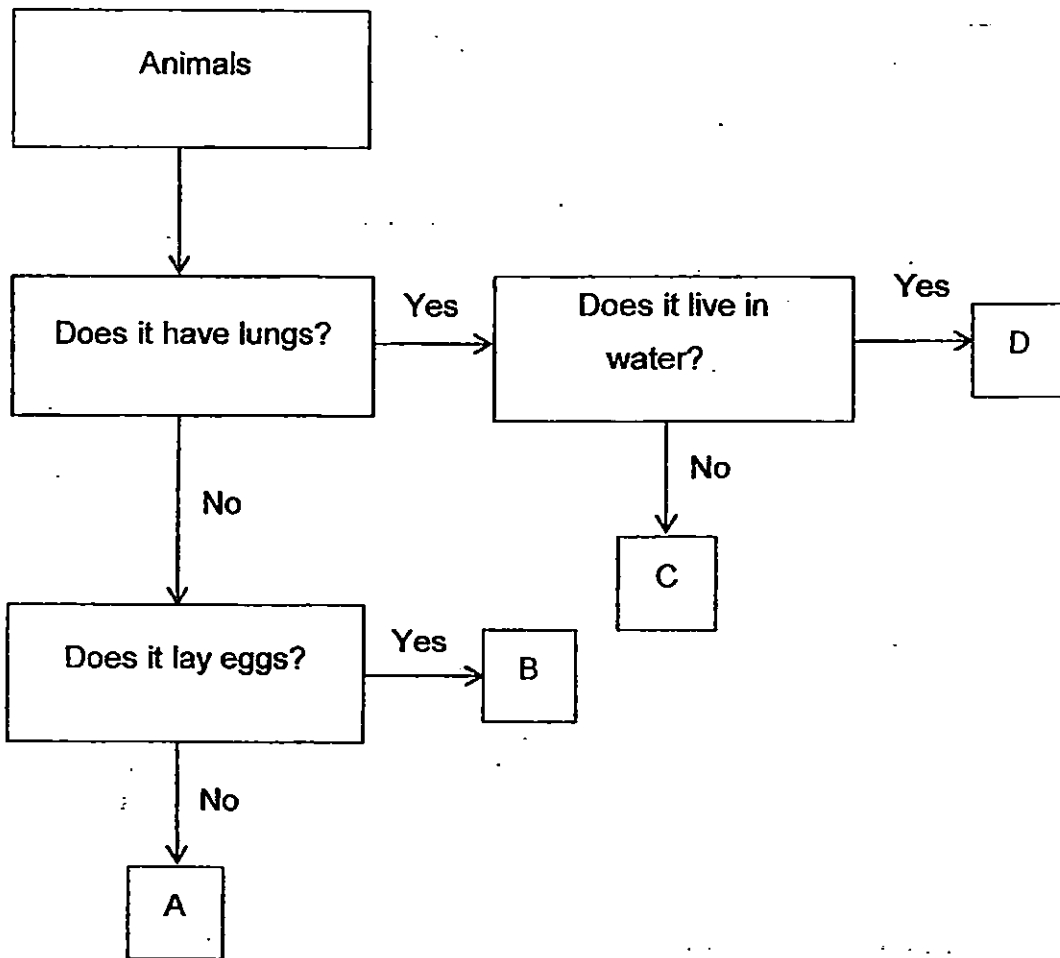
19. The pictures below show four plants, A, B, C and D.



a) Classify the plants by completing the classification chart according to the heading below, using letters A, B, C and D. (2m)



20. Tom has to classify four animals using the flowchart given below.



Identify the animals and write the corresponding letter, A, B, C or D, in the blanks provided. (2m)

(a) Housefly : _____

(b) Whale : _____

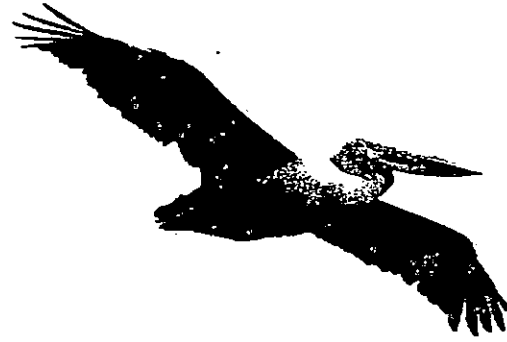
(c) Sparrow : _____

(d) Guppy : _____

21. Study the diagrams below.



Animal X

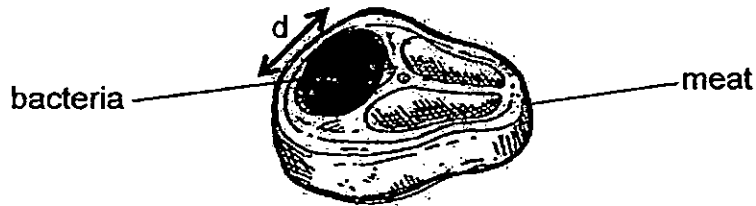


Animal Y

(a) Based on the diagram, state an observable difference between Animal X and Animal Y. Do not mention size and shape. (1m)

(b) What is the outer body covering of Animal Y? (1m)

22. Dean wanted to find out how the different methods of storing meat affect the growth of bacteria. He placed 3 similar pieces of meat on a plate and stored the meat differently. He observed the meat after 5 days and measured the diameter (d) of bacteria growth. The table below shows the results of the experiment:



Method of storing	Temperature ($^{\circ}\text{C}$) of surroundings	Bacterial growth on the meat (mm)
On the table	28	30
Fridge	0	17
Under the sun	35	53

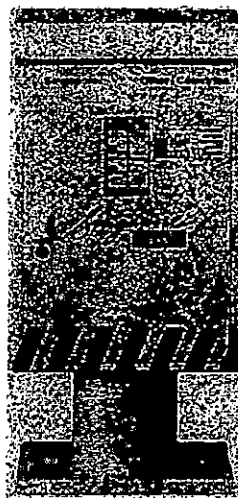
(a) Which is the safest method of storing the meat? Explain your answer.

(1m)

(b) Based on the table above, what is the relationship between the temperature of the surroundings (0°C to 35°C) and the amount of bacterial growth?

(1m)

23. Study the diagrams below. Material P and Q are used to make the different parts of the mailbox and watch respectively.



material P

Mailbox



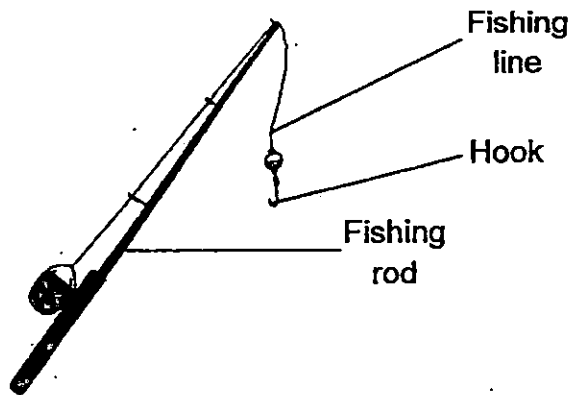
material Q

Watch

Tick (✓) the boxes in the table below to show the properties that Material P and Q has. (2m)

Properties	Material P	Material Q
It allows light to pass through		
It is strong		
It is waterproof		
It is flexible		

24. Thomas wanted to find out which material makes a good fishing line. A fishing line is a line used to catch fish. He placed 3 similar length fishing lines made of different material onto the fishing rod. He recorded the mass hung before the fishing line snapped.



The results are shown in the table below.

Material used to make the fishing line	Mass hung on the fishing line just before it snapped (kg)
A	10
B	15
C	20

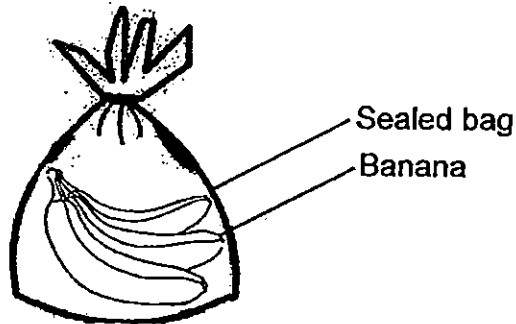
(a) Which material(s) would be able to hold a mass of 12 kg? (1m)

(b) Other than being waterproof, which two other properties must the material used to make the fishing rod have? (1m)

(i) _____

(ii) _____

25. Lisa conducted an experiment to find out how the material used to package bananas affects their ripening. She placed 3 similar bunches of bananas into 3 similar sized bags made of different materials and sealed them. She observed the bananas for 2 weeks. The results are shown in the table below.



Material of package	Days taken for bananas to ripen
Paper bag	3
Plastic bag	7
Cloth bag	5

(a) Which material should Lisa use to package the bananas if she would like to eat the bananas as soon as possible? Explain your answer.

(1m)

It is a rainy day. Lisa wants to bring a bunch of bananas to her mother without getting the fruits wet.

(b) Which material of package should she use? Explain your answer. (1m)



EXAM PAPER 2015

LEVEL : PRIMARY 3

SCHOOL : TAO NAN SCHOOL

SUBJECT : SCIENCE

TERM : MID-YEAR EXAMINATION

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 9	Q 10
4	3	4	2	2	3	4	4	4	3
Q 11	Q 12	Q 13	Q 14	Q 15					
2	1	1	2	1					

Q16. a) Water is classified wrongly. It is a non-living thing.

b) The pumpkin should be placed in Group A.

Q17. a) Living things need food to stay alive.

b) She should use Y as it attracts the most number of ants.

Q18. a) It makes its own food and does not bear fruits.

b) S can represent a mango tree. A mango tree makes its own food, bears fruits and grows on land.

Q19. *Under grows in water:* A, D *Under grows on land:* B, C

Q20. a) B b) D c) C d) A

Q21. a) Animal Y has wings while Animal X does not have wings.

b) The outer covering of Animal Y is feathers.

Q22. a) Fridge. The meat has the least amount of bacterial growth.

b) The higher temperature, the more bacterial growth.

Q23. *Material P:* It is strong. It is waterproof.

Material Q: It is strong. It is waterproof. It is flexible.

Q24. a) Material B and C.

b) i) Flexible ii) Strong

Q25. a) Paper Bag. The bananas placed in the paper bag take the shortest time to ripen.

b) Plastic Bag. It is waterproof.