

Name : _____

Date : _____

P6 Foundation Science

SA1 Practice Set A

No	Answer
1	
2	
3	
4	
5	
6	
7	
8	

No	Answer
9	
10	
11	
12	
13	
14	
15	
16	

Section A : (32 marks)

For each question from 1 to 16, three options are given. One of them is the correct answer. Make your choice and shade the oval (1, 2 or 3) on the Optical Answer Sheet (OAS).

- Peter tossed a coin and observed that it moves upwards before moving downwards.

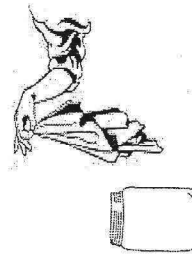


Which effects of forces can Peter observe?

- A A force can stop a moving object.
- B A force can slow down a moving object.
- C A force can change the direction of a moving object.

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

- Jane used a cloth to open a glass jar with a tight lid.



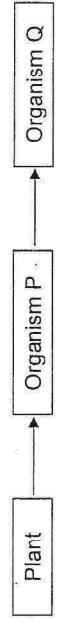
How does the cloth help her to open the lid more easily?

- (1) It protects the lid.
- (2) It makes the lid smoother.
- (3) It increases friction between the lid and cloth.

5. The children are exercising in the park on a sunny day. They get their energy from _____.

- (1) the sun
- (2) the food they eat
- (3) the exercises that they do

6. The diagram below shows a transfer of energy from one organism to another.



Which of the following statement(s) is/are correct?

- A Organism Q is a predator.
- B Organism P and Q are both preys and predators.
- C Both the plant and Organism P are the preys of Organism Q.

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

3. The table below shows three different types of forces, X, Y and Z, present which is indicated by a (✓) when the following activities are carried out.

Activities	Types of forces		
	X	Y	Z
Pushing a box down a ramp	✓		✓
Pressing on the brakes to stop a car	✓		
Using a compass to tell direction		✓	

Based on the table above, which one of the following is correct?

	X	Y	Z
(1)	Frictional force	Magnetic force	Gravitational force
(2)	Magnetic force	Gravitational force	Frictional force
(3)	Gravitational force	Frictional force	Magnetic force

4. Which of the following activities helps to conserve electricity?

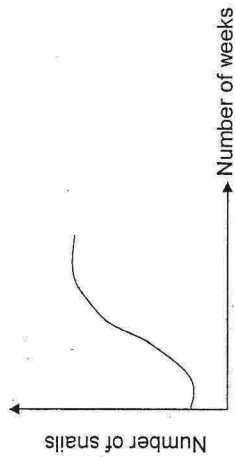
- A Switching off the lights when not in use.
- B Switching on the heater when no one is bathing.
- C Switching on the fans instead of the air-conditioner.

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

7. Study the food chain below carefully.

Plant → Snail → Fish A → Fish B

The graph below shows the change in the snail population in the same pond after some time.



Which of the following would have caused the change in the population of snail as shown in the graph above?

- A An increase in the number of plants.
- B An increase in the number of Fish B.
- C An increase in the number of Fish A.

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

8. Ruth wanted to study if temperature affects the survival of Organism Z.

Set-up	Conditions
A	Presence of a heater with 5 Organism Z and a bowl of water
B	Presence of a heater with 10 Organism Z and a bowl of water
C	Presence of a cooler fan with 5 Organism Z and no water
D	Presence of a cooler fan with 10 Organism Z and a bowl of water

Which two set-ups should she use?

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

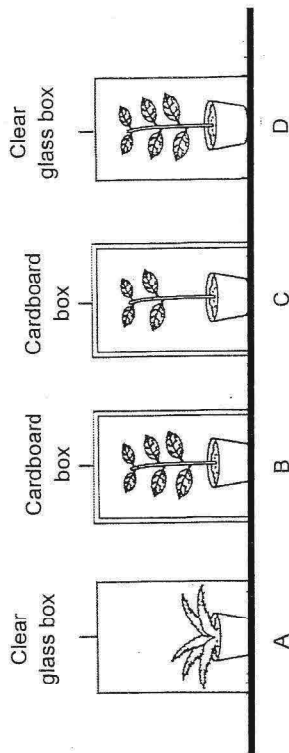
9. The diagram below shows two insects living in the same habitat.



Which one of the following is most likely to be the habitat of these insects?

- (1) field
- (2) rotting log
- (3) seashore

10. Sam wants to conduct an experiment to see how light affects the growth of plants.



Which two set-ups should he use to ensure that it is a fair experiment?

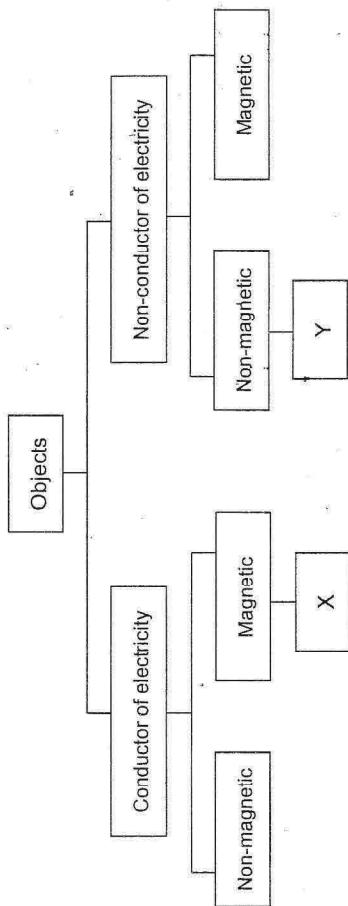
- (1) A and D
(2) B and C
(3) B and D

11. Ali wanted to study the relationship between the volume and mass of Substance A. He took some Substance A and measured its mass and volume. Which of the following should Ali do to ensure that his experiment is carried out correctly?

- A Repeat the experiment using different amount of Substance A.
B Repeat the experiment using the same amount but different types of substances.
C Keep the temperature of Substance A the same throughout the experiment.

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

12. The following shows a classification table.



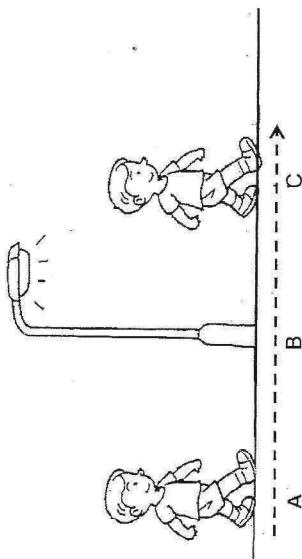
Based on the chart above, what do Objects X and Y represent?

	Object X	Object Y
(1)	steel pin	iron nail
(2)	copper coin	glass rod
(3)	iron nail	wooden block

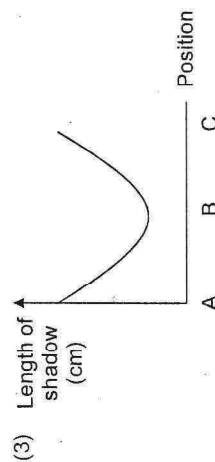
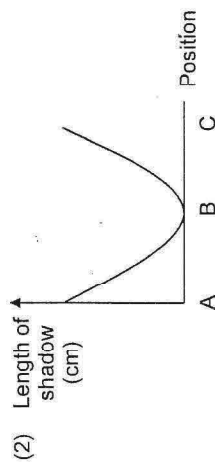
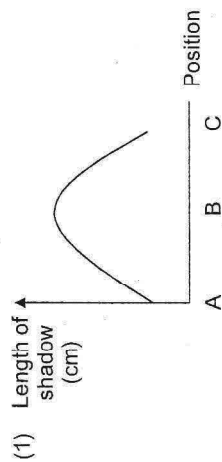
13. Tom felt very cold when he was in an air-conditioned room. Which one of the following statements best explains why?

- (1) His body lost heat to the surroundings.
(2) The surroundings lost heat to his body.
(3) His body gained coldness from the surroundings.

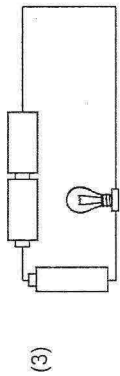
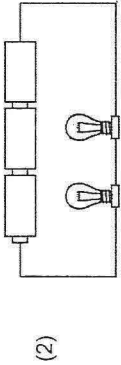
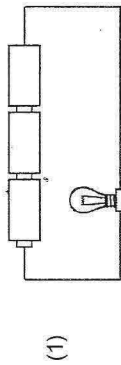
14. Fandi is walking under a street lamp at night as shown below.



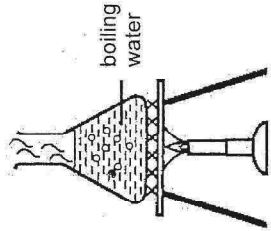
Which one of the following graphs correctly shows the length of shadow of Fandi on the ground as he walks from A to C?



15. In which of the following circuit will the bulb be the brightest?



16. Sean boiled some water for ten minutes as shown in the diagram below.



Which one of the following is correct when the water starts to boil?

- (1) The water absorbs more heat when it is boiling.
 (2) The temperature of water remains constant when it is boiling.
 (3) The temperature of water increases more slowly than before.