

Total Marks:

SCIENCE CLASSWORK: MAGNETS INTERACTION

Name:

Section A: Multiple-Choice Questions (5 marks)

Question 1

Figure 9 shows sets of magnets. Which sets of magnets will repel each other?

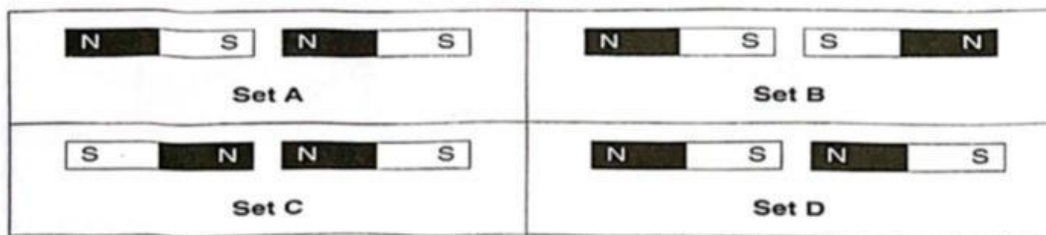


Figure 9

- A. Set A and Set B.                      C. Set B and Set C.  
B. Set A and Set C.                    D. Set C and Set D.

☐

Question 2

In Figure 25, which of the pair of magnets will stay together?

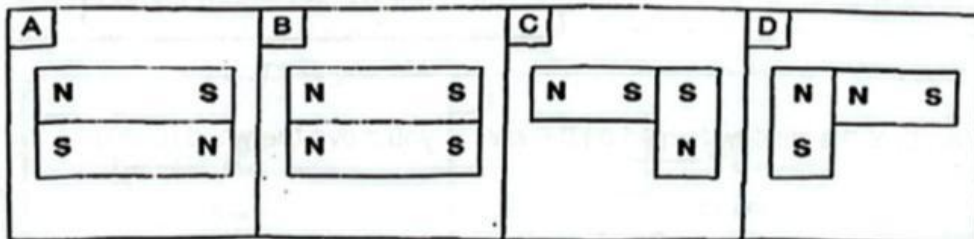


Figure 25

Question 3

What happens when a south seeking pole of a magnet is brought close to the south-seeking pole of another magnet?

- A. They pull toward each other  
B. They push each other away  
C. The two magnets do not move  
D. The two magnets point toward the north

☐

#### Question 4

Figure 18 shows an experiment using three ring magnets.

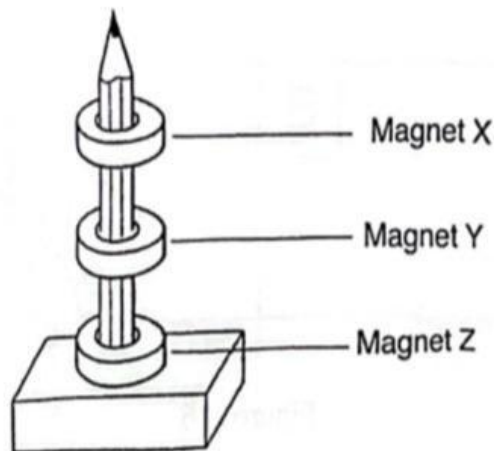
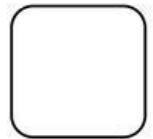
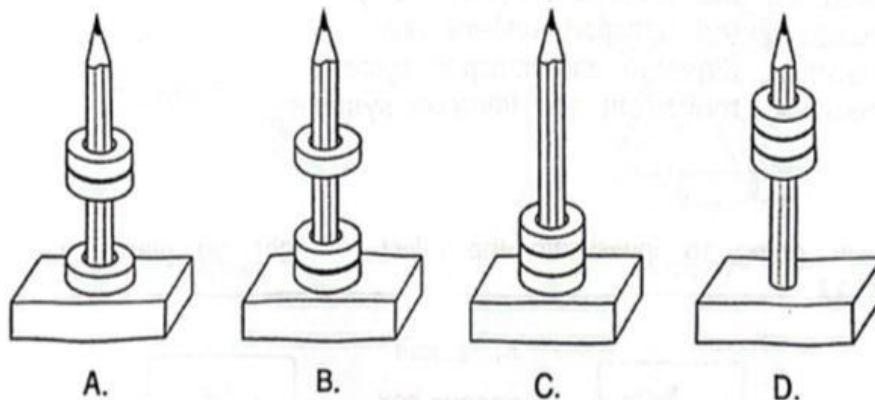


Figure 18

What will happen if magnet X is flipped?



#### Question 5

In Figure 14, magnet A is fixed and it pushes magnet B away. This is because \_\_\_\_\_.

- A. magnet A is fixed
- B. magnet A is stronger
- C. the shaded poles are like poles
- D. the shaded poles are unlike poles

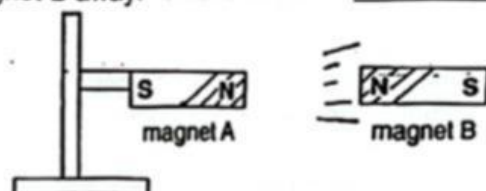
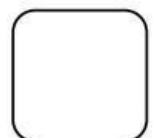


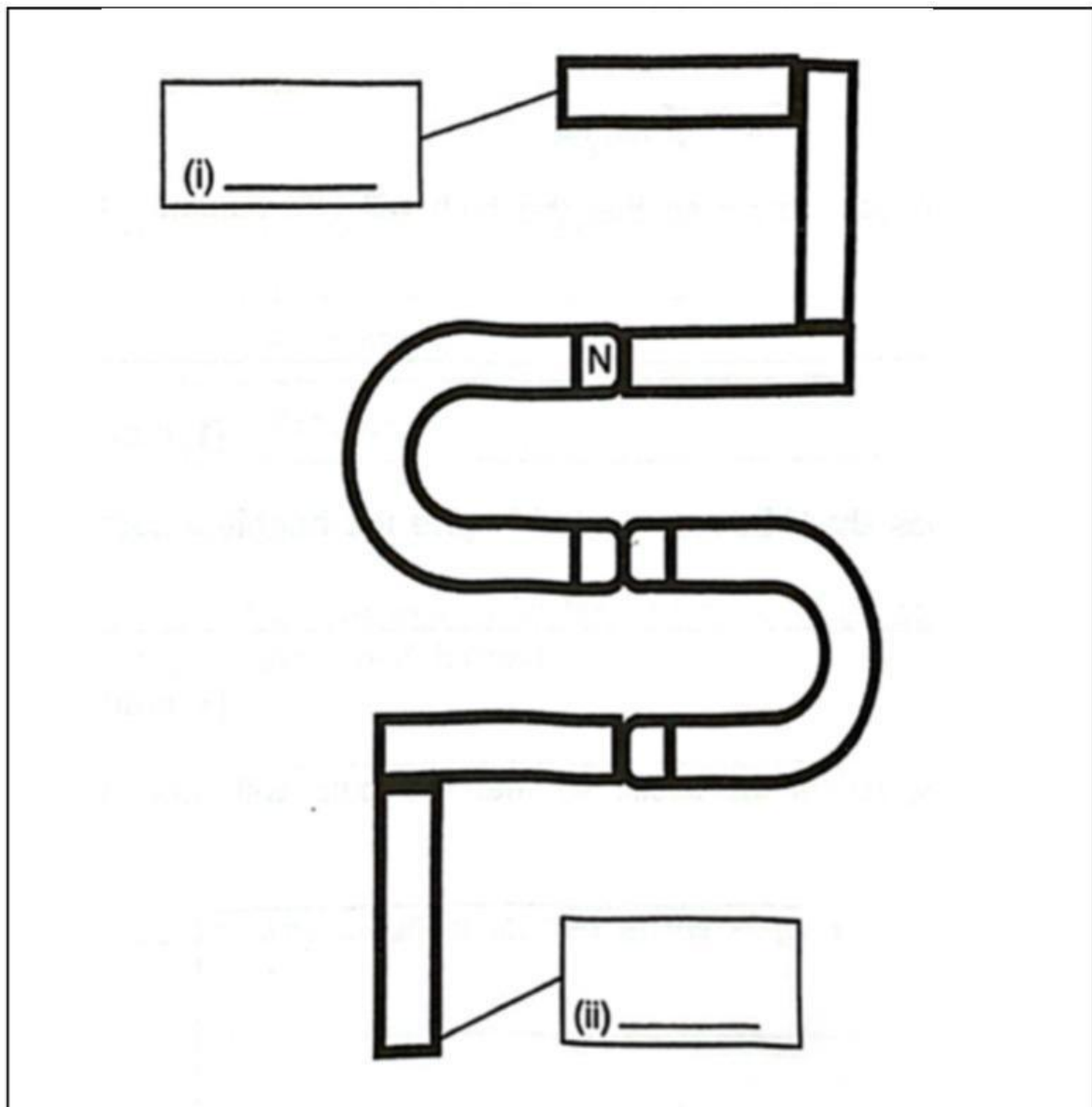
Figure 14



**Section B: Answer the questions (10 marks)**

**Question 1**

Study Figure 6 below. All magnets in the diagram attract to each other.  
Write **"N"** for North Pole and **"S"** for South Pole in the boxes provided.

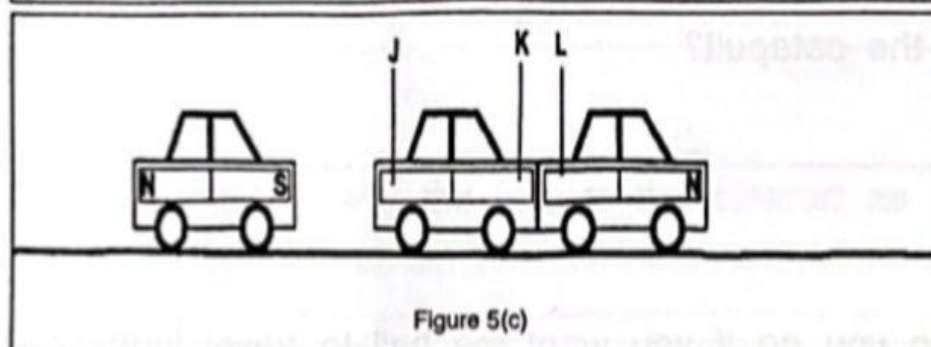
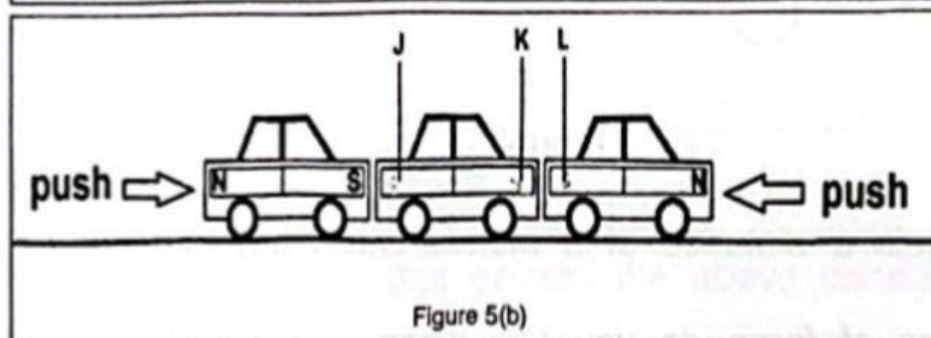
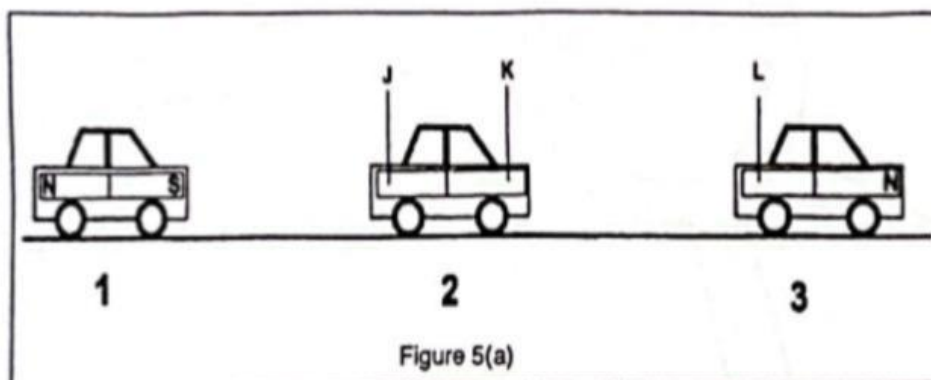


**Figure 6**

[2 marks]

## Question 2

Fadhlan has three toy cars 1, 2 and 3 positioned as shown in Figure 5(a). Each toy car has a bar magnet inside with unknown pole J, K and L. He pushed the three toy cars as shown in Figure 5(b). The result of his experiment is shown in Figure 5(c).



(a) What would be the poles at:

J	
K	
L	

[3 marks]

(b) Explain why the toy cars 1 and 2 moves away from each other?

\_\_\_\_\_

[1 mark]

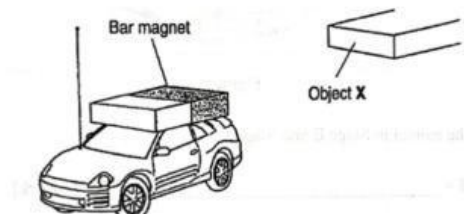
(c) What would happen if North Pole of bar magnet in toy car 1 is turned to face toward Pole J?

\_\_\_\_\_

[1 mark]

### Question 3

Zafirah tied a bar magnet to the top of a plastic toy as shown in Figure 5. When she placed Object X near the bar magnet, the plastic toy car began to move away from Object X.



(a) What is Object X?

\_\_\_\_\_

[1 mark]

(b) What can be done to make the plastic toy car move towards Object X?

\_\_\_\_\_

[1 mark]

(c) Why does the plastic toy now move towards Object X?

\_\_\_\_\_

[1 mark]

Rate Your Understanding				
0	1	2	3	4
I am so lost.	I don't really get it.	I'm starting to get it.	I got this.	I could teach it.

Teacher's feedback:
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