

**MOUNT CARMEL INTERNATIONAL SCHOOL, AKOLA**  
**Cambridge International**



Formative Assessment: I

Subject: Science

Date: 29.08.2024

Student's Name: \_\_\_\_\_ Roll No: \_\_\_\_\_ Grade: 5

Marks: 25

Time Duration: 60 minutes

Invigilator's Sign.

**Q.1. Some flowering plants are adapted to attract insects such as bees. These plants often have coloured flowers. Chen and Priya investigate which colour of flower is best at attracting bees. Chen and Priya:**

- Choose plants that have different coloured flowers.
- Count how many bees enter each different coloured flower in one hour.

Look at their results.

Colour of flower	Number of bees
Blue	20
Red	9
White	5
Yellow	14

a. Write three variables they find in this investigation. **(3)**

---

---

---

a. Complete these sentences about sound. **(2)**

Sound is made when an object. \_\_\_\_\_

Loud and quiet describe the volume of a sound.

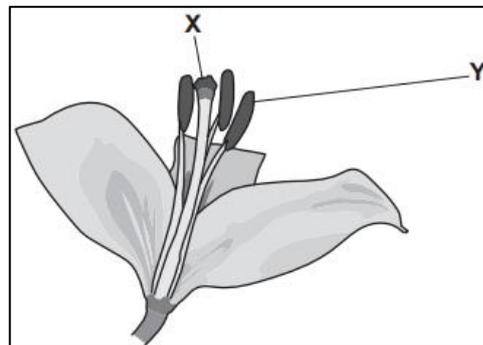
High and low describe the \_\_\_\_\_ of a sound.

**Q.2. The diagram shows parts of a flower.**

a. Name part X and part Y. Choose from the list. **(2)**

Part X \_\_\_\_\_

Part Y \_\_\_\_\_



b. This flower is brightly coloured to attract insects for pollination. State two other ways flowers are adapted to attract insects. **(2)**

1. \_\_\_\_\_

2. \_\_\_\_\_

**Q.3. Plants are adapted to disperse seeds in different ways. Complete the table to identify the type of seed dispersal for each description. **(4)****

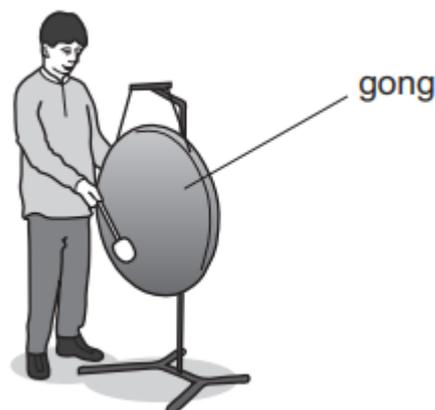
Plant	Description	Type of Seed Dispersal
A	seeds are large and lightweight so they float	_____
B	seeds have tiny hooks on them so they attach to things	_____
C	seeds have wings and are lightweight so they move in air	_____
D	seeds are found inside fruits so they are eaten	_____

**Q.4. Look at the picture of a gong and complete the sentence in terms of volume. **(1)****

When the 'gong' is hit with less force it makes a sound.

\_\_\_\_\_

\_\_\_\_\_



**Q.5. The table shows the lowest pitch and highest pitch of five musical instruments.**

Musical instrument	Pitch in units	
	Lowest	Highest
Clarinet	230	880
Guitar	40	990
Oboe	220	880
Trombone	110	440
Tuba	55	220

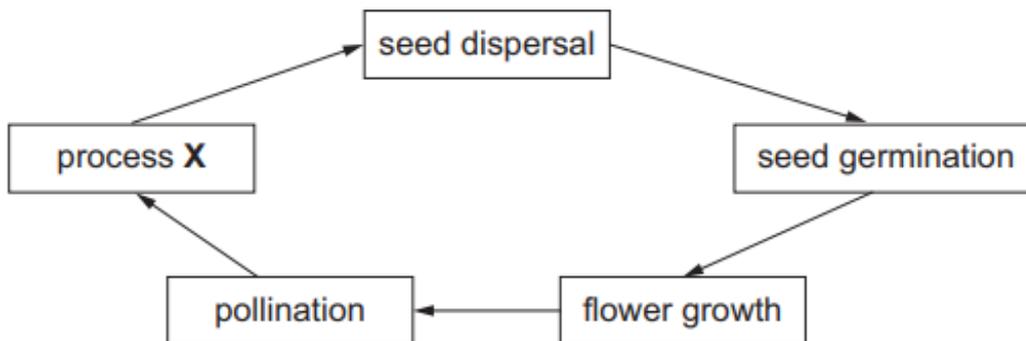
a. Which instrument among all produces the lowest pitch? (1)

---

b. What is the best instrument to produce highest pitch? (1)

---

**Q.6. Look at the diagram of the life cycle of a flowering plant.**



a. Write down two requirements for seed germination. (2)

---

---

b. Write down the name of process X. (1)

---

c. Complete the sentence about pollination. (2)

During pollination, pollen moves from the \_\_\_\_\_

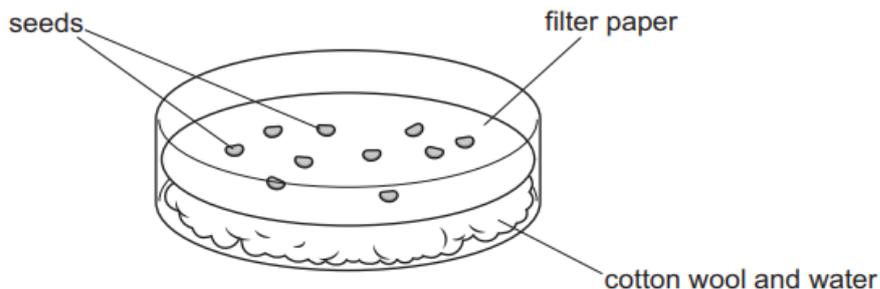
of one flower to the \_\_\_\_\_ of a different flower.

**Q.7. Mia investigates seed germination. Mia has four dishes A, B, C and D. Into each dish she puts:**

1. filter paper
2. cotton wool
3. seeds
4. 3 ml of water.

She puts the dishes in different places for five days. The diagram shows dish A.

The diagram shows dish A.



Here are her results.

Dish	No. of Seeds in Each Dish	Light or Dark	Warm or Cold	No. of Seeds Germinated.
A	10	LIGHT	WARM	8
B	8	LIGHT	COLD	1
C	10	DARK	WARM	7
D	9	DARK	COLD	0

a. What is the dependent variable in Mia's investigation? (1)

---



---

b. Mia's investigation is not a fair test. Describe how Mia improves her investigation to make it a fair test. (1)

---



---

c. Use the results in the table to complete the sentences. (2)

A condition needed for these seeds to germinate is

---

The evidence in the table is

---