

## MARKING SCHEME – SCIENCE

**Q.1.** Write TWO characteristics of flowering and non-flowering plants.

4 Marks

**Possible Answers:**

Flowering Plants	Flowering plants produce flowers for their reproduction
	Flowering plants produce seeds and seeds germinate into new plants
Non- flowering plants	Non flowering plants do not bear flowers
	They grow on damp soil near drainage pipes type

**Checking Hints:**

1 mark for writing each characteristic of flowering plants (2 required)

1 mark for writing each characteristic of non-flowering plants (2 required)

**Q.2.**

2 Marks

(a) Define soil.

**Possible Answers:**

Soil is the major portion of the Earth's surface which supports the growth of plants and provides shelter for different animals.

**Checking Hints:**

2 marks for the complete definition

1 mark for the incomplete definition

(b) Write the names of TWO types of soil.

2 Marks

**Possible Answers:**

(i) Sand

(ii) Clay

(iii) Silt

**Checking Hints:**

1 mark for each answer (2 required)

**Q.3.**

4 Marks

Give TWO examples of each of the following.

**Possible Answers:**

Vertebrates	Name of any two animals with backbone e.g. (i) Fishes (ii) Frogs (iii) tortoise (iv) snakes (v) crocodile (vi) sparrow (vii) kiwi
Invertebrates	Name of any two animals without backbone e.g. (i) Mosquito (ii) Cockroach (iii) Ant

**Checking Hints:**

1 mark for each example of vertebrates (2 required)

1 mark for each example of invertebrates (2 required)

**Q.4.** Draw the arrangement of molecules in liquids and gases.

4 Marks

**Possible Answers:**

Liquid molecules: distance shown between molecules is more than the solid
Gas molecules: distance shown between molecules is more than the liquid

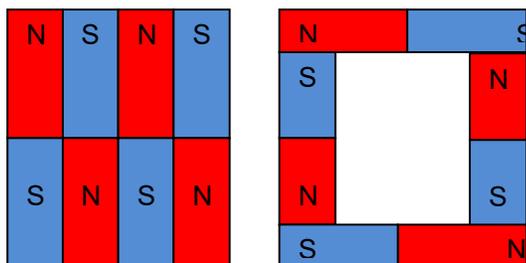
**Checking Hints:**

2 marks for drawing the arrangement of molecules of liquids

2 marks for drawing the arrangement of molecules of gases

**Q.5.** Arrange these bar magnets to make a square (label north and south pole on each bar magnet)

4 Marks

**Possible Answers:**

**Checking Hints:**

4 magnets together with 4 correct direction:	4 marks
4 magnets together with 3 correct direction:	3 marks
4 magnets together with 2 correct direction:	2 marks
2 or 3 magnets together with 2 correct direction:	1 mark
All 4 incorrect direction:	0
All separate magnets:	0

**Q.6.** (a). Why do we use fuse in a circuit?

2 Marks

**Possible Answers:**

We use fuse in a circuit **to stop the flow of current** when it **exceeds the safety level**.

**Checking Hints:**

2 marks for the correct answer (2 key phrases required)

(b). Name the eclipse.

2 Marks

**Possible Answers:**

Lunar Eclipse

**Checking Hints:**

2 marks for the correct answer

**Q.7.** Identify the type of lever shown below. Also label fulcrum, load and effort at their proper place.

4 Marks

**Possible Answers:**

a) load
b) fulcrum
c) effort
d) lever type: first class lever

**Checking Hints:**

1 mark for each correct labeling (4 required)

**Q.8.** Draw a closed electric circuit. (Showing cell, wire, bulb)

4 Marks

**Possible Answers:**

a) Showing Cell
b) Showing Wire
c) Showing bulb
d) Cell, wire and bulb are connected

**Checking Hints:**

1 for each correct labeling (4 required)

**Q.9.** If you hit the paper, what will happen to the coin and why?

4 Marks

**Possible Answers:**

The coin will drop into glass.

The coin will drop into glass due to **inertia**. Since the **coin is heavier than the thick card**, so **flicking the card will move the piece of card due to less inertia (light weight)**. The coin will drop into glass due to inertia (heavy weight).

**Checking Hints:**

1 mark for writing the result

3 marks for describing the reason (3 key phrases required)

**Q.10.** Place the given processes on their right place in the water cycle.

4 Marks

**Possible Answers:**

1)	Evaporation
2)	Condensation
3)	Precipitation
4)	Collection

**Checking Hints:**

1 mark for each correct label (4 required)

**Q. 11.** Write names of the missing planets in the given diagram.

3 Marks

**Possible Answers:**

1)	Earth
2)	Saturn
3)	Neptune

**Checking Hints:**

1 mark for each correct label (3 required)

**Q. 12.** Write down the number of moons of the following planets.

2 Marks

**Possible Answers:**

Name of the Planet	Number of Moon
Jupiter	63
Uranus	27

**Checking Hints:**

1 mark for writing the number of moons of Jupiter

1 mark for writing the number of moons of Uranus