

Syllabus for CSO is available at <https://www.crestolympiads.com/cso-syllabus>

Pattern And Marking Scheme

Class	Topic/Section	No. of Questions	Marks per Questions	Total Marks
1 st to 4 th	Practical Science	25	1	25
	Achiever's Section	10	2	20
	Grand Total	35	-	45
5 th to 10 th	Practical Science	40	1	40
	Achiever's Section	10	2	20
	Grand Total	50	-	60

- Sarah took a teaspoon of washing soda in a bottle and added about 50 ml of water in it and shakes so as to dissolve the soda completely. She added about 5 ml of lemon juice in it. A gas is evolved which extinguish the matchstick placed at the mouth of the bottle.

Identify the name of the gas evolved and the type of change that has taken place.

- Change: Physical change, Gas evolved: Hydrogen
- Change: Physical change, Gas evolved: Carbon dioxide
- Change: Chemical change, Gas evolved: Hydrogen
- Change: Chemical change, Gas evolved: Carbon dioxide

- The thickness of a dozen coins on a metre scale is 16.8 cm. Four students were asked to measure the thickness of a coin. The observations of the students are given below:

Rohan: 1.4 cm

Sanjana: 0.14 mm

Varun: 1.2 cm

Seema: 14 mm

Which of the following students is/are correct regarding the measurement of the coin?

- Only Rohan
- Both Rohan and Seema
- Both Sanjana and Varun
- Rohan, Varun and Sanjana

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3. Read the given statements and select the correct option.

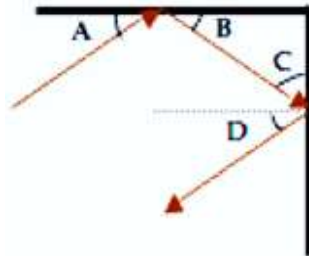
Statement 1: Alum is used to load the clay particles suspended in the water so that the clear water on top is can be decanted.

Statement 2: Evaporation technique is used to separate two immiscible liquids like water and oil.

Which of the above statements is/are correct?

- a) Only statement 1 is correct
 - b) Only statement 2 is correct
 - c) Both the statements are correct
 - d) Both the statements are incorrect
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4. In a physics lab, Sam arranges two mirrors with right orientation as shown. He then directs a laser line at one of the mirrors. The light reflects off both mirrors as shown. If angle A is 42° , then what is the value of angle D?



- a) 48°
 - b) 42°
 - c) 44°
 - d) 22°
-

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5. Identify the parts of the pistil of the following flower.



- a) Pollen grain, anther and flower bud
 - b) Style, stigma and ovary
 - c) Pollen-sacs, corolla and androecium
 - d) Calyx, thalamus and pedicel
-

6. Complete the following sentence.

A bar magnet is immersed in a heap of iron filings and pulled out. The amount of iron filling clinging to the _____.

- a) north pole of the magnet is almost equal to the south pole of the magnet
 - b) north pole of the magnet is much more than the south pole of the magnet
 - c) north pole of the magnet is much less than the south pole of the magnet
 - d) magnet will be same all along its length
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7. Fill in the blank:

- 1. _____ is a safety device which is based on the heating effect of electric current.
 - 2. When an electric current flow through a wire, it behaves like a _____.
 - 3. The longer line in the symbol for cell depicts its _____ terminal.
- a) 1-Magnet, 2-fuse, 3-negative
 - b) 1. Battery, 2-cells, 3-neutral
 - c) 1-Fuse, 2-magnet, 3-positive
 - d) 1-Battery, 2-fuse, 3-positive

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8. Match the column A with column B and select the correct option.

	Column A		Column B
1.	Terracing	A.	Decayed vegetable or animal matter
2.	Erosion	B.	Cutting down forests
3.	Deforestation	C.	Practiced in hilly areas
4.	Humus	D.	To wear away

- a) 1 - A, 2 - B, 3-C, 4 –D
- b) 1-A, 2-C, 3-B, 4-D
- c) 1-C, 2-A, 3-B, 4-D
- d) 1-D, 2-D, 3-B, 4-A

Achiever's Section

9. Look at the information given below:

W: Helps in the formation of red blood cells.

X: Helps in the clotting of the blood.

Z: Helps in the formation of strong bones and teeth

Identify the correct option.

a)

	W	X	Y
Vitamin	Vitamin B ₁₂	Vitamin K	Vitamin D
Sources	Liver, eggs	Spinach, cabbage	Sunlight, butter

b)

	W	X	Y
Vitamin	Vitamin K	Vitamin B ₁₂	Vitamin D
Sources	Milk, meat	Liver, eggs	Sunlight, butter

c)

	W	X	Y
Vitamin	Vitamin D	Vitamin B ₁₂	Vitamin K
Sources	Sunlight, butter	Liver, eggs	Milk, meat

d)

	W	X	Y
Vitamin	Vitamin B ₁₂	Vitamin C	Vitamin K
Sources	Tomatoes, citrus fruits	Liver, eggs	Milk, meat

10. Choose the INCORRECT statement from the following related to rearing of silkworms:



- # Answers

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