SAMPLE PAPER

CLASS 6

CREST Science Olympiad (CSO)

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
	Practical Science	25	1	25
1st to 4th	Achiever's Section	10	2	20
	Grand Total	**35**	-	**45**
	Practical Science	40	1	40
5th to 10th	Achiever's Section	10	2	20
	Grand Total	**50**	-	**60**

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1. 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.

   a) Change: Physical change, Gas evolved: Hydrogen
   b) Change: Physical change, Gas evolved: Carbon dioxide
   c) Change: Chemical change, Gas evolved: Hydrogen
   d) Change: Chemical change, Gas evolved: Carbon dioxide

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2. 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?

   a) Only Rohan
   b) Both Rohan and Seema
   c) Both Sanjana and Varun
   d) Rohan, Varun and Sanjana

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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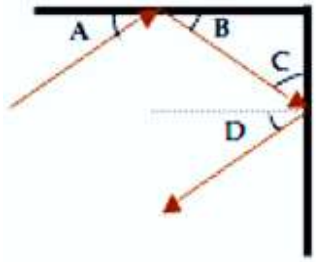
4. In a physics lab, Sam arranges two mirrors with right orientation as shown. He then directs a laser line at one of the mirrors. The light reflects off both mirrors as shown. If angle A is 42°, then what is the value of angle D?



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

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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

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

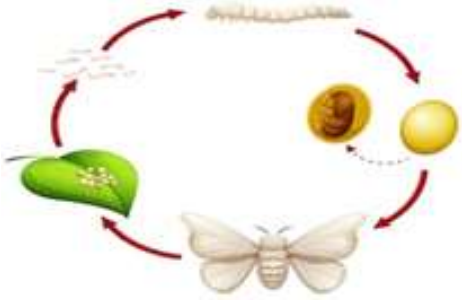
c)

	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:



1. A female silk moth lays hundreds of eggs at a time and is stored in a cloth or paper strips to be sold to silkworm farmers.
2. Eggs are kept inside small racks or twigs for the larvae to be warmed to a suitable temperature.
3. The larvae eat mulberry leaves day and night and increases enormously in size.
4. After 25 to 30 days, the caterpillar stops eating and moved to tiny chamber of bamboo in the tray to spin cocoon.

a) Only 1
b) Only 2
c) Both 1 and 2
d) Both 3 and 4

Answers

1. (d), 2. (b), 3. (a), 4. (b) 5. (b), 6. (a), 7. (c), 8. (d), 9. (a), 10. (b)