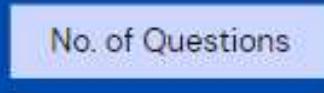
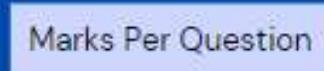



Total Questions - 50
Maximum Mark - 150
Duration - 1 hr

**SCO International
Science Olympiad**

Pattern and Marking Scheme

50

3
Syllabus
International Science Olympiad (ISO) 2022-23 SET - AH 7
Grade 8

Crop Production and Management, Micro Organism: Friend and Foe, Conservation of Plants and Animals, Cell Structure and Functions, Reproduction in Animals, Reaching the age of Adolescence, Pollution of Air and Water, Force and Pressure, Friction, Sound, Chemical Effects of Electric Current, Some Natural phenomenon, Light, Stars and the solar system, Synthetic Fibres and Plastic, Materials: Metal and Non Metal, Coal and Petroleum, Combustion and Flame



Guidelines for the Candidate

1. You will get additional ten minutes to fill up information about yourself on the OMR Sheet, before the start of the exam.
2. Write your Name, School Code, Class, Roll No. and Mobile Number clearly on the OMR Sheet and do not forget to sign it. We will share your marks / result and other information related to Olympiad exams on your mobile number.
3. The Question Paper comprises sections: reasoning, subjective, achievers' section
4. All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
5. There is only ONE correct answer. Choose only ONE option for an answer.
6. To mark your choice of answers by darkening the circles on the OMR Sheet, use HB Pencil or Blue / Black ball point pen only
7. Rough work should be done in the blank space provided in this booklet.
8. Return the OMR Sheet to the invigilator at the end of the exam.
9. Please fill in your personal details in the space provided on this page before attempting the paper.

1. The process of conversion of sugar into alcohol in the absence of oxygen is called _____.

- a. fermentation

- b. vaccination
- c. pasteurization
- d. decomposition

2. Which of the following statement(s) is/are correct?

Statement 1 : A white coloured ash of magnesium oxide is obtained on burning magnesium ribbon.

Statement 2 : H_2SO_3 is acidic in nature.

- a. Statement 1 is true
- b. Statement 2 is true
- c. None is true
- d. Both are true

3. Light is falling on surfaces S_1 , S_2 and S_3 as shown in the figure.



Surface S_1



Surface S_2



Surface S_3

Surfaces on which the angle of incidence is equal to the angle of reflection is/are:

- a. Only S_1
- b. S_1 and S_2
- c. S_2 and S_3
- d. All the three surfaces

4. Which of the following constellations can be seen in the night sky during the winter season?

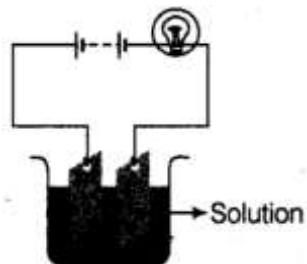
- a. Orion and Cassiopeia
- b. Ursa Major and Leo Major
- c. Orion and Ursa Major
- d. Ursa Major and Cassiopeia

5. Which of the following statements is/are correct?

- a. The slow corrosion of marble of a monument by acid rain is also known as “marble cancer”.
- b. The greenhouse is a structure made of glass walls and glass roof in which the plants that need protection from cold weather are grown.

- c. Due to the rapid burning of fossil fuels and decrease in forest, the amount of carbon dioxide gas in the atmosphere is increasing steadily.
- d. All of the above.

6. Which of the following solutions will not make the bulb glow in figure?



- a. Sodium chloride
- b. Copper sulphate
- c. Silver nitrate
- d. Sugar solution in diluted water

7. Identify P, Q and R.

Cell	Feature / Part	Function
Plant cell	P	Photosynthesis
Q	Branched	Contraction stimuli and response
Amoeba	Pseudopodia	R

From the options given below choose the correct combination of terms.

- a. P – Plastid; Q – Nerve Cell; R – Movement
- b. P – Chloroplast; Q – Muscle Cell; R – Respiration
- c. P – Plastid; Q – Muscle Cell; R – Movement
- d. P – Cell wall; Q – Animal Cell; R – Respiration

8. Migratory birds fly to far away areas during a particular time of a year. Which of the following conditions present in their habitat during that time are responsible for this behaviour?

- (i) Extreme weather conditions.
- (ii) Overcrowding.
- (iii) Unavailability of food.
- (iv) Lack of nesting areas.

- a. (ii) and (iii)

- b. (i) and (ii)
- c. (i) and (iv)
- d. (ii) and (iv)

9. We Get “Sulphur Dioxide” when sulphur _____.

- a. Burns in air
- b. Reacts with hydrogen and oxygen
- c. Reacts with oxygen and carbon dioxide
- d. Reacts with sulphurous acid

10. The dramatic changes in body features associated with puberty are mainly because of the secretions of:

- a. Thyroxine and Estrogen
- b. Estrogen and Testosterone
- c. Thyroxine and Adrenaline
- d. Estrogen and Adrenaline

Answer Keys:

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



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