CLASS
7

SCIENCE OLYMPIAD FOUNDATION

SAMPLE PAPER 2026-27

(Formerly SOF NSO)

ISO
SOF INTERNATIONAL SCIENCE OLYMPIAD

Total Questions : 50 | Time : 1 hr.

PATTERN & MARKING SCHEME			
Section	(1) Logical Reasoning	(2) Science	(3) Achievers Section
No. of Questions	10	35	5
Marks per Ques.	1	1	3

SYLLABUS

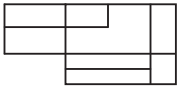
Section – 1 : Verbal and Non-Verbal Reasoning.

Section – 2 : The Ever-Evolving World of Science, Life Processes in Plants, Life Processes in Animals, Acidic, Basic and Neutral Substances, The World of Metals and Non-metals, Adolescence : A Stage of Growth and Change, Heat Transfer in Nature, Changes Around Us - Physical and Chemical, Measurement of Time and Motion, Electricity: Circuits and their Components, Light : Shadows and Reflections, Earth, Moon and the Sun.

Section – 3 : Higher Order Thinking Questions - Syllabus as per Section – 2.

LOGICAL REASONING

1. Find the number of rectangles formed in the given figure.

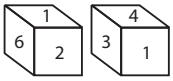


(A) 10 (B) 11
(C) 12 (D) More than 12

2. How many degrees will the minute hand rotate when the time changes from 1:42 pm to 2:10 pm?

(A) 158° (B) 238° (C) 143° (D) 168°

3. Two different positions of a dice are shown here. Which number will be on the face opposite to the face having number 2?



(A) 5 (B) 1 (C) 4 (D) 3

SCIENCE

4. Different types of changes are listed as:

P : Physical, irreversible
Q : Physical, reversible
R : Chemical, irreversible
S : Both physical and chemical

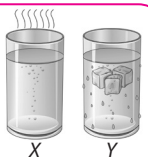
Based on these, select the correct statement from the following.

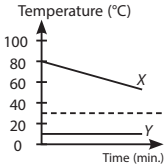
(A) *S* can represent burning of candle while *P* can represent shredding of paper.
(B) *P* can represent ripening of a fruit while *R* can represent rusting of iron.
(C) *P* can represent melting of butter while *Q* can represent cutting a piece of a paper.
(D) *S* can represent burning of paper while *Q* can represent breaking of glass tumbler.

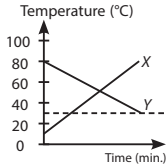
5. Which of the following changes takes place in boys during puberty?

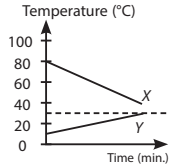
(A) Development of high pitched voice (B) Enlargement of Adam's apple
(C) Broadening of pelvis (D) All of these

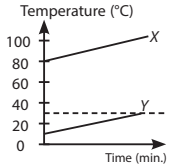
6. Two identical cups, *X* and *Y* are filled with water at different temperatures as shown in the given figures. They are placed in a room which is at a temperature of 30°C. Which one of the following graphs correctly shows the variation in the temperature of the water in the cups over a period of time?



(A) 

(B) 

(C) 

(D) 

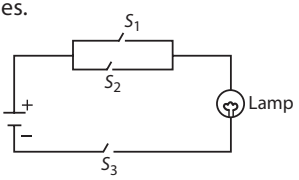
7. Which of the following statements is correct regarding inhalation?
(A) Ribs move downward and inward
(B) Diaphragm becomes dome-shaped
(C) Air pressure in the lungs decreases
(D) Volume of thoracic cavity decreases

8. Select the incorrect matches.
(i) Gastric juice – Pepsin
(ii) Gall bladder – Lactase
(iii) Bile – Pancreas
(iv) Hydrochloric acid – Stomach
(v) Maltase – Oesophagus
(vi) Saliva – Amylase
(A) (ii) and (iii) only
(B) (iii) and (iv) only
(C) (ii), (iii) and (v) only
(D) (i), (ii) and (vi) only

ACHIEVERS SECTION

9. In the given circuit diagram, S_1, S_2 and S_3 are switches.
Lamp will glow when

	S_1	S_2	S_3
(A)	Open	Open	Closed
(B)	Closed	Closed	Open
(C)	Open	Closed	Open
(D)	Closed	Open	Closed



10. Match column I with column II and select the correct option from the given codes.

Column I (Type of respiration)	**Column II (Respiratory organ involved)**
P. Tracheal	(i) Skin
Q. Cutaneous	(ii) Gills
R. Branchial	(iii) Spiracles
S. Pulmonary	(iv) Lungs

(A) P-(iii), Q-(i), R-(ii), S-(iv)
(B) P-(ii), Q-(i), R-(iv), S-(iii)
(C) P-(iv), Q-(ii), R-(i), S-(iii)
(D) P-(i), Q-(iv), R-(iii), S-(ii)

ANSWER KEY

1. (D) 2. (D) 3. (D) 4. (A) 5. (B) 6. (C) 7. (C) 8. (C) 9. (D) 10. (A)