



**SOF NATIONAL
SCIENCE OLYMPIAD**

SYLLABUS

Section – 1 : Verbal and Non-Verbal Reasoning.

Section – 2 : Crop Production and Management, Microorganisms, Synthetic Fibres and Plastics, Metals and Non-metals, Coal and Petroleum, Combustion and Flame, Conservation of Plants and Animals, Cell, Reproduction and Endocrine System, Force and Pressure, Friction, Sound, Chemical Effects of Electric Current, Some Natural Phenomena, Light, Stars and the Solar System, Pollution of Air and Water.

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

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

LOGICAL REASONING

1. A dice has numbers 1, 2, 3, 4, 5 and 6 on its faces. Four positions of the dice are as shown below. The number on the face opposite to the face with number 2 is _____.



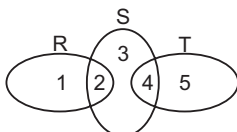
- (A) 6
(B) 5
(C) 4
(D) 1

2. Find the number of triangles in the given figure.



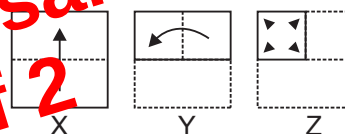
- (A) 12
(B) 13
(C) 16
(D) 10

3. In the given diagram, R represents businessmen, S represents rich men and T represents honest men. Which number will represent honest rich men ?



- (A) 2
(B) 3
(C) 5
(D) 4

4. There is a set of three figures X, Y and Z, showing a sequence in which a paper is folded and finally cut from a particular section. Select the figure from the options which most closely resembles the unfolded form of fig (X).



- (A) (B) (C) (D)

5. If BJP is coded as DMK, how can RSS be written in that code?

- (A) CPI
(B) TVN
(C) SJP
(D) TDP

SCIENCE

6. Which of these is likely a function of centriole?

- (A) To hold the fibres of spindle
(B) To send messages to the nucleus to divide
(C) To divide the cytoplasm
(D) To cause the chromosomes to become shorter and thicker

7. Arrange the following planets in increasing order of time required to complete one revolution around Sun.

- (i) Earth (ii) Uranus
(iii) Mars (iv) Jupiter
(A) (i), (ii), (iii), (iv) (B) (i), (iii), (iv), (ii)
(C) (iv), (iii), (ii), (i) (D) (ii), (iii), (i), (iv)