



**SOF NATIONAL
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

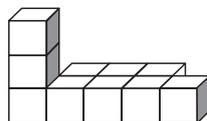
Section – 1 : Patterns, Analogy and Classification, Coding-Decoding, Geometrical Shapes, Mirror Images, Water Images, Embedded Figures, Direction Sense Test, Ranking Test, Alphabet Test and Logical Sequence of Words, Puzzle Test.

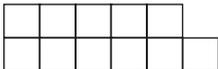
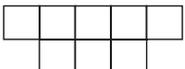
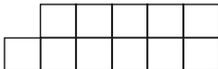
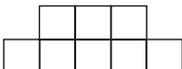
Section – 2 : Animals, Human Body and Health, Plants, Natural Resources, Pollution and Calamities, Earth and Universe, Matter, Force, Work and Energy.

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

LOGICAL REASONING

- If you are eleventh in a queue starting either end, how many are there in the queue?
(A) 11 (B) 21 (C) 20 (D) 24
- Choose the 2-dimensional figure that represents the 3-dimensional figure when viewed from top.



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

- The mirror image of SON, if the mirror is placed vertically to the left is _____.
(A) NOS (B) ƧON (C) ƧOI (D) IOƧ

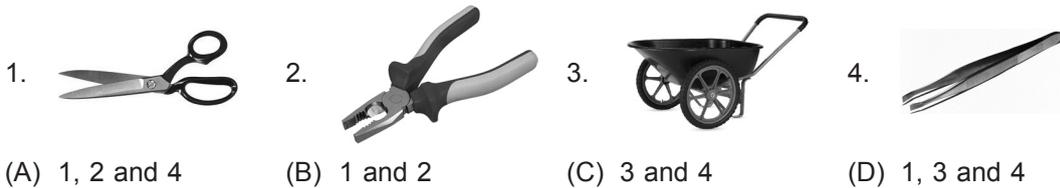
SCIENCE

- The term 'Reduce' is one of the three R's (reduce, reuse and recycle) to save the environment. An example of the opposite of reducing is over-packaging which is an anti-environment activity. Which of the following packaging activities is anti-environment?
(A) Filling a cereal box completely
(B) Putting an item in a cardboard box, then putting that box in another box
(C) Putting foam packing material around a fragile item
(D) Packing an item in the smallest possible box
- If your diet is deficient in sour fruits then you are supposed to suffer from
(A) Rickets (B) Beri Beri (C) Scurvy (D) Night blindness.
- _____ is a good conductor of electricity.
(A) Metal (B) Rubber (C) Plastic (D) All of these
- A small baby plant coming out of a seed is called _____.
(A) Grain (B) Root (C) Dispersal (D) Seedling.
- Which of these is needed to measure the mass of a rock?
(A) A balance (B) A barometer (C) A metric ruler (D) A thermometer

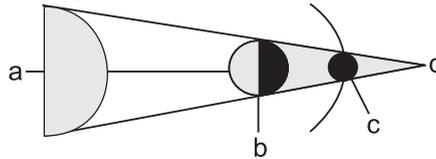
9. Burning of garbage leads to (i). (i) can cause deadly diseases such as (ii) and asthma. Which of the following options correctly fills the blanks (i) and (ii)?
 (A) (i)-Air pollution, (ii)-Lung cancer (B) (i)-Water pollution, (ii)-Lung cancer
 (C) (i)-Soil pollution, (ii)-Cholera (D) (i)-Water pollution, (ii)-Typhoid

10. The substance that imparts green colour to the plants is known as
 (A) Water (B) Chlorophyll (C) Carbon dioxide (D) Calcium.

11. Which of the following are included in first class levers?



12. Look at the figure. It shows lunar eclipse. Where will be the Earth in it ?

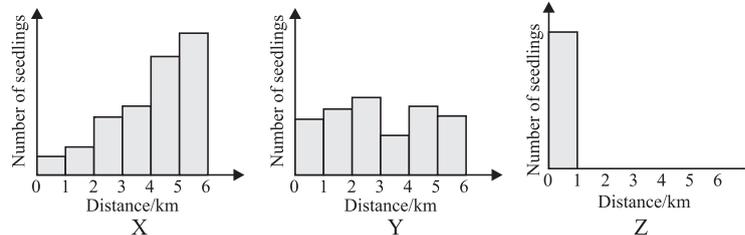


- (A) a (B) b (C) c (D) d

13. If there is no rain, crops fail to grow. This condition will lead to
 (A) Flood (B) Drought (C) Famine (D) Both (B) and (C).

ACHIEVERS SECTION

14. Three different types of plants X, Y and Z, were selected by scientists who want to document their methods of seed dispersal. The graphs below show the approximate number of seedlings found at various distances around the parent plant.

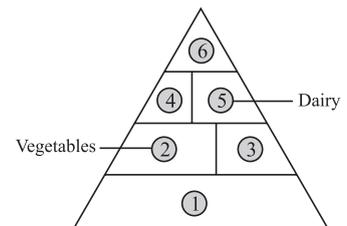


Which option most correctly lists the methods of seed dispersal of each plant?

- | X | Y | Z |
|----------------------|------------------|------------------|
| (A) Water | Explosive action | Animal |
| (B) Wind | Animal | Water |
| (C) Wind | Animal | Explosive action |
| (D) Explosive action | Water | Animal |

15. Identify 1, 3, 4 and 6 in the given pyramid and select the correct option.

- | 1 | 3 | 4 | 6 |
|--------------|----------|----------|-----------------|
| (A) Fruits | Grains | Proteins | Sweets and fats |
| (B) Grains | Fruits | Proteins | Sweets and fats |
| (C) Proteins | Fruits | Grains | Sweets and fats |
| (D) Fruits | Proteins | Fats | Grains |



ANSWERS

NSO – 1. (B) 2. (D) 3. (D) 4. (B) 5. (C) 6. (A) 7. (D) 8. (A) 9. (A) 10. (B) 11. (B) 12. (B) 13. (D) 14. (C) 15. (B)

How OlympiadHelper.com can help students scoring better in Olympiad examination?



OlympiadHelper.com is the most trusted and comprehensive Olympiad exam diagnostic and preparation tool. It provides an objective, in-depth practice platform to the students preparing for various Olympiad examinations. Our assessments bring to light the strengths and weaknesses of a student on the five-core subject English, Science, Mathematics, Computer Skills and General Knowledge. Our “Online Test Series” is designed to handle most of the school level competitive / Olympiad / diagnostic exams; such as

- Science Olympiad Foundation** National Cyber Olympiad (NCO), National Science Olympiad (NSO), International Mathematics Olympiad (IMO), International English Olympiad (IEO), International Sports & Knowledge Olympiad (ISKO) exams, conducted by Science Olympiad Foundation (SOF)
 - Educational Initiatives** ASSET – Mathematics, ASSET – Science and ASSET – English exams, conducted by Educational Initiatives
 - Macmillan Education** IAIS-Mathematics, IAIS-Science, IAIS-English and IAIS - Digital Technology (formerly IAIS-Computer) exams, conducted by Macmillan Education in partnership with Educational Assessment
 - Silver Zone** International Informatics Olympiad (iIO), International Olympiad of Science (iOS), International Olympiad of Mathematics (iOM), International Olympiad of English Language (iOEL), SKGKO and iTHO exams, conducted by Silver Zone
- and many other similar examinations.

Most of the Olympiad exams are conducted on the similar syllabus that kids are studying at school. It means that they do not require additional reference books for the preparation of these exams. However, at the same time questions asked in these exams are quite different than what kids learn in the school. Questions are trickier and conceptual.

We are
**The Most Trusted
Olympiad
Diagnostic and
Preparation Tool**

[Subscribe Now](#)

Use coupon
“Test20” to get 20%
discount on
Subscription

To excel in ‘Olympiad Exams’, it is essential for the students to understand the exam pattern, evaluate and prepare themselves on the Olympiad standard questions.

Following are the few impressive features that make “OlympiadHelper.com” the most comprehensive and trusted tool for Olympiad Exam

Get
50 Chapter-wise
20 Sample and
3 Mock Tests in
each of the
following
subjects

- Cyber/Computer
- Science
- Mathematics
- English
- General Knowledge

Subscribe Now

1. Comprehensive Dashboard: Monitor your overall Olympiad preparation progress from a single screen. This screen is very useful for parents. It gives a complete detail about how the kid is using the Tool. It gives details such as till now how many tests they have completed, when was the last time they have completed their chapter-wise, sample, mock or review tests and what was their performance in the last test. Just one glance and you will get a complete understanding on the status of kids preparation.

2. Chapter-wise Tests: Currently, the biggest problem to the students appearing in Olympiad Exams is that; exams are conducted in the mid-session. This gives no time to students for preparation. With “Chapter-wise Test Generation” feature students can start their Olympiad Exam preparation as soon as they complete their first chapter. You will get an option of generating 50 chapter-wise tests in each subscribed subject.

3. Selection of Exam Patterns: To provide our learners; more realistic feel while taking a practice test, we provide an option to select Exam pattern. It also means that you DO NOT NEED to buy a separate package for the same subject of different exams.

4. Sample Tests: 20 Full-length Tests with an option to select exam patterns from All-Inclusive, SOF, SilverZone, IAIS and ASSET

5. Mock Tests: 3 Full-length Tests with an option to select exam patterns from All-Inclusive, SOF, SilverZone, IAIS and ASSET

6. Review Tests: A revolutionary new feature allows kids to attempt only those questions which they have marked wrong. When exams are nearby, this feature becomes very useful while revising the subject.

7. Descriptive Answers: Detailed answers are given to all difficult questions.

8. Mark Question for Review: Have doubts in a question and want to discuss with your parent/teacher? This feature can be very useful.

9. Feedback Option: You will find a link to send feedback/doubts about the question at the bottom of each question. In case you are not satisfied with the question/answer or answer description, you can communicate the same to us, using the link. Our team will get back to you with explanation / resolution / details with 48 hrs.

[See Free DEMO Test](#)

10. Detailed Strength and Weakness Report: After each test, the student will get a detailed diagnostic report that contains student's performance break-up at the chapter level.

Use coupon
"Test20" to get
20% discount on
Subscription

11. Percentile Score: At the end of each mock test, kids are presented with the percentile score. If your percentile score is 86, this means 86% of all the kids who appeared in the same exam have scored either less than or equals to your marks. However, it also means that 14% of the kids have scored more than your marks. This feature helps the kids to evaluate their preparation.

12. Time Tracking: Monitor time spent on a question as well as on a test paper.

13. Reset Test: Facility to re-appear in Chapter-wise / Sample tests.

14. User-Notes: Option to maintain customised notes; On question, on chapter, on subject or in general

Visit www.OlympiadHelper.com for more information.