

CLASS

4

SAMPLE PAPER

**Science
Olympiad
Foundation**

For Excellence in Science, Maths & IT

NATIONAL SCIENCE OLYMPIAD





The actual test paper has 50 questions. Time allowed : 60 minutes. There are 2 sections, 20 questions in section I and 30 in section II.

SYLLABUS

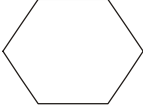
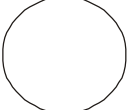
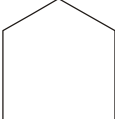
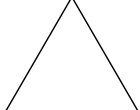
Section I (Mental ability) : Numerals and number name, Addition, Subtraction, Fractional numbers, Multiplication, Division, Time, Straight and curved lines, Calendar, Measurement of weight and capacity, Geometrical shapes, Money.

Section II (Science) : Plant and Animal Life, Human Body, Environment, Matter, General Science, Universe.

MENTAL ABILITY

1. Hill 1 is 5,729 metre high. Hill 2 is 4,049 metre high. How much higher is Hill 1 than Hill 2 ?
(A) 1,720 m (B) 680 m (C) 1,680 m (D) 1,239 m (E) None of these.
2. On the first day of their vacation, the Bindal family drove 628 kilometre. On the second day, they drove 602 kilometre. How many kilometre did they drive in these two days ?
(A) 1,226 (B) 1,248 (C) 1,230 (D) 1,330 (E) None of these.
3. Namita drew a figure with 4 square corners. Which could be the figure she drew ?
- (A)  (B) 
- (C)  (D) 
- (E) None of the above.

4. What would be the next 3 numbers in this pattern ?
9, 12, 15, 18, 21, 24, 27, __, __, __
(A) 33, 36, 39 (B) 30, 33, 36 (C) 28, 29, 30 (D) 30, 32, 34 (E) None of these.

5. Which could be one of the faces of a cylinder ?
- (A)  (B)  (C)  (D)  (E) None of these.

6. A triangle with all its sides unequal in length is called
(A) Scalene (B) Isoceles (C) Equilateral (D) All of these (E) None of these.
7. $2\frac{1}{4}$ as a decimal equals
(A) 2.25 (B) 2.50 (C) 2.15 (D) 2.30 (E) None of these.

SCIENCE

8. When a moving object rubs against something, its motion slows down because of a force called
(A) Speed (B) Gravity (C) Friction (D) Momentum (E) None of these.
9. A leaflike part that protects a flower bud and is usually green in colour
(A) Stamen (B) Sepal (C) Leaf (D) Petal (E) None of these.
10. A barometer measures
(A) Temperature (B) Air pressure (C) Wind speed (D) Precipitation (E) None of these.
11. The time it takes for Earth to rotate on its axis is one
(A) Day (B) Month (C) Season (D) Year (E) None of these.
12. When the layer of air that surrounds the Earth presses down, this is
(A) Heat (B) Temperature (C) Air pressure (D) Precipitation (E) None of these.

13. The energy an object gets from its motion is –
(A) Electrical energy (B) Chemical energy
(C) Kinetic energy (D) Potential energy
(E) None of these.
-
14. The pull or push is
(A) Gravity (B) Friction (C) Force (D) Inertia (E) None of these.
-
15. The time it takes the earth to orbit the sun is one
(A) Year (B) Season (C) Month (D) Day (E) None of these.
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16. A force that pulls two objects together is –
(A) Speed (B) Friction (C) Force of attraction
(D) Inertia (E) None of these.
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17. Plants use sunlight to make sugar in the process of –
(A) Oxidation (B) Reproduction (C) Photosynthesis
(D) Fertilization (E) None of these.
-
18. Energy that results from chemical changes is –
(A) Friction (B) Mechanical energy
(C) Kinetic energy (D) Chemical energy
(E) None of these.
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19. Rubber, glass and plastic are good –
(A) Conductors (B) Generators
(C) Insulators (D) Electromagnets
(E) None of these.
-
20. The tiny part of a seed that can grow into a plant is the –
(A) Pistil (B) Spore (C) Fruit (D) Embryo (E) None of these.
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ANSWER KEY

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1. (C) | 2. (C) | 3. (B) | 4. (B) | 5. (B) | 6. (A) | 7. (A) | 8. (C) | 9. (B) | 10. (B) |
| 11. (A) | 12. (C) | 13. (C) | 14. (C) | 15. (A) | 16. (C) | 17. (C) | 18. (D) | 19. (C) | 20. (D) |