

CLASS

6

SAMPLE PAPER

Science
 Olympiad
Foundation

For Excellence in Science, Maths & IT

NATIONAL SCIENCE OLYMPIAD

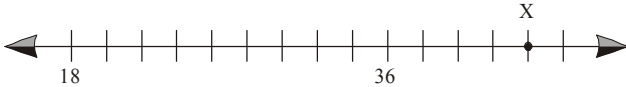
The actual test paper has 50 questions. Time allowed : 60 minutes. There are 2 sections, 20 questions in section I and 30 in section II.

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) : Motion and Measurement, Light, Electricity & Magnetism, Water, Sorting Materials into Groups, Separation of Substances, Changes Around Us, Living Organism: Food Health & Hygiene, Fibres to Fabrics, Life Processes.

MENTAL ABILITY

1. Find L.C.M. of following numbers
12, 24, 48, 108
(A) 504 (B) 432 (C) 405 (D) 440 (E) None of these.
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2. Gita has 558 flags to pack into boxes. Each box will hold 62 flags. How many boxes will Gita need to hold all the flags ?
(A) 34,596 (B) 0.9 (C) 9 (D) 620 (E) None of these.
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3. You would need to know the perimeter of something if you were--
(A) Buying a box big enough to hold a clock
(B) Buying enough tiles to cover the floor of a room
(C) Buying enough wood to make a frame for a picture
(D) Buying a tablecloth big enough to cover a table
(E) None of these.
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4. 
Which best describes the location of point X ?
(A) 58 (B) 40 (C) 44 (D) 54 (E) None of these.
-
5. What is the area of a rectangle that measures 5 meters wide and 6 meters long ?
(A) 11 m² (B) 22 m² (C) 30 m² (D) 16 m² (E) None of these.
-
6. If n represents a number, which of these means the same as the expression $n + 6$?
(A) Six more than a number (B) Six divided by a number
(C) Six less than a number (D) Six times a number (E) None of these.
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7. Which can be solved by using the open sentence $K + 10 = ?$
(A) Mohan did 10 times as many push-ups as Kiran. If K is the number of push-ups Kiran did, how many push-ups did Mohan do ?
(B) Sharon did 10 more sit-ups than Kevin. If K is the number of sit-ups Kevin did, how many sit-ups did Sharon do ?
(C) John ran 10 fewer meters than Kiran. If K is the number of meters Kiran ran, how many meters did John run ?
(D) Kavita takes 10 minutes to run each lap around the gymnasium. If K is the number of laps Kavita ran, how long did she run ?
(E) None of these.

SCIENCE

8. Who wrote the book "The Origin of Species" ?
(A) Louis Pasteur (B) Sir Alexander Fleming (C) Charles Darwin
(D) Stephen Hawking (E) None of these.
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9. The tail of a comet always points towards the Sun.
(A) False (B) True (C) Cannot say
(D) Sometimes true, sometimes false
(E) None of these

10. Which of the following is necessary for burning (combustion) ?
 (A) Oxygen (B) Petrol (C) Carbon
 (D) Nitrogen (E) None of these.
-
11. The body system that gives you support and allows movement is the
 (A) Skeletal system (B) Circulatory system (C) Respiratory system
 (D) Excretory system (E) None of these.
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12. Which food group BEST provides the necessary nutrients for healthy teeth and bones ?
 (A) Milk and dairy products (B) Fruits and vegetables (C) Bread and cereal
 (D) Meat (E) None of these.
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13. The Sun is a
 (A) Comet (B) Star (C) Huge planet (D) Satellite (E) None of these.
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14. The Earth is surrounded by an insulating blanket of gases which protects it from the light and heat of the Sun. This insulating layer is called the
 (A) Hydrosphere (B) Lithosphere (C) Atmosphere
 (D) Biosphere (E) None of these.
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15. Which part of the body receives messages transmitted by nerve cells located throughout the body ?
 (A) Heart (B) Lungs (C) Brain (D) Liver (E) None of these.
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16. Which of the following has an organic origin ?
 (A) Sand (B) Bakelite (C) Nylon (D) Coal (E) None of these.
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17. Which is usually NOT a reason why foods are processed ?
 (A) More nutritious (B) Easier to package
 (C) Last longer on the shelf (D) Easier to transport to the store
 (E) None of these.
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18. What force pulls things toward the center of Earth ?
 (A) Friction (B) Gravity (C) Magnetism (D) Electricity (E) None of the above.
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19. Who discovered the circulation of blood ?
 (A) Edward Jenner (B) William Harvey (C) Hargobind Khorana
 (D) Louis Pasteur (E) None of these.
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20. If you dissolved a lot of salt in some water in a large flat dish and put the dish in bright sunlight on a hot day, what would be left in the dish after a long time ?
 (A) Dry salt (B) Water with no salt
 (C) The same salty water as before (D) Nothing (E) None of these.
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ANSWERS KEY

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