INTERNATIONAL TALENT HUNT OLYMPIAD 2014

iTHO

Organized by :

Society of Science Education

New Delhi, India

FOR SUPREMACY IN SCIENCE & MATHEMATICS

www.silverzone.org

3GEN
Transforming knowledge into transcript

Society of Science Education
NEW DELHI, INDIA

Class 6th	Syllabus & Sample Questions

Food and its Components, Fibre to Fabric, Sorting Materials, Separation of Substances, Changes Around Us, Knowing Plants, Body Movements, The Living Organisms, Motion and Measurement, Light, Shadows and Reflection, Electricity and Circuits, Magnets, Air and Water, Garbage In, Garbage Out, Number system, Understanding Elementary shapes, Integers, Fractions and Decimals, Data Handling, Mensuration, Algebra, Ratio and Proportion, Symmetry, Practical Geometry, Analogy, Blood relation, Classification, Coding Decoding, Direction Test , Letter series, Mixed series , Non verbal & Number series.

The actual question paper contains 40 questions. The duration of the test paper is 60 minutes.

1. **What is the audible range of sound for human?**

   (A) ☐ 20 Hz - 20,000 Hz
   (B) ☐ 10 Hz - 10,000 Hz
   (C) ☐ 5 Hz - 5,000 Hz
   (D) ☐ 50 Hz - 20,000 Hz
   (E) ☐ None of these

2. **What is the ratio of hydrogen atom to the oxygen atom in a molecule of water?**

   (A) ☐ 1 : 2
   (B) ☐ 2 : 1
   (C) ☐ 1 : 3
   (D) ☐ 3 : 1
   (E) ☐ None of these

3. **Tina covers a distance of 200 km in East direction with constant speed of 25 km/h. Which type of motion is this?**

   (A) ☐ Uniform motion
   (B) ☐ Non uniform motion
   (C) ☐ Circular motion
   (D) ☐ All of these
   (E) ☐ None of these

4. **Which property of metal helps us to change metal into thin sheets by beating?**

   (A) ☐ Malleability
   (B) ☐ Expansion
   (C) ☐ Ductility
   (D) ☐ All of these
   (E) ☐ None of these

5. **How much distance is travelled by a car in half hour, if the speed of the car is 40 km/h?**

   (A) ☐ 20 km   (B) ☐ 10 km
   (C) ☐ 30 km   (D) ☐ 40 km
   (E) ☐ None of these

6. **M and N are co primes numbers, M represents lowest composite number and N represents lowest odd prime number. Which one of the following is their product?**

   (A) ☐ 12   (B) ☐ 24
   (C) ☐ 10   (D) ☐ 20
   (E) ☐ None of these

7. In a godown, there are 4562 rice bags and 3085 wheat bags. Each rice bag contains 25 kg rice and each wheat bag contains 30 kg wheat. Find the total weight of grains in the godown.
(A) ☐ 114050 kg
(B) ☐ 92550 kg
(C) ☐ 7853000 kg
(D) ☐ 206600 kg
(E) ☐ None of these

8. If we convert LXXXVI in Hindu Arabic numerals, we get which one of the followings?
(A) ☐ 87
(B) ☐ 86
(C) ☐ 88
(D) ☐ 89
(E) ☐ None of these

9. A woman bought 22 dozens of bananas at the rate of ₹ 12 per dozens. She sold the banana at the rate of ₹ 2 per banana. Find the gain or loss percent.
(A) ☐ 50%
(B) ☐ 25%
(C) ☐ 100%
(D) ☐ 150%
(E) ☐ None of these

10. Find the value of $\dfrac{A + B + C}{2}$, where

$$A = \dfrac{5}{16} - \dfrac{3}{16}, B = \dfrac{4}{25} - \dfrac{3}{25} + \dfrac{9}{25}, C = \dfrac{4}{15} - \dfrac{9}{15} + \dfrac{6}{15}$$

(A) ☐ $\dfrac{69}{240}$
(B) ☐ $\dfrac{70}{240}$
(C) ☐ $\dfrac{71}{240}$
(D) ☐ $\dfrac{68}{240}$
(E) ☐ None of these

11. Find the missing letter.
Y .... S P M
(A) ☐ R
(B) ☐ W
(C) ☐ Z
(D) ☐ V
(E) ☐ None of these

12. Find the code of 'CDEFT' if the code for 'LMNOD' is 'MOOQE'.
(A) ☐ DFFHU
(B) ☐ HFFDU
(C) ☐ UFHFD
(D) ☐ DHFDU
(E) ☐ None of these

Answers

1. (A)	2. (B)	3. (A)	4. (A)	5. (A)	6. (A)
7. (D)	8. (B)	9. (A)	10. (C)	11. (D)	12. (A)