

INTERNATIONAL TALENT HUNT OLYMPIAD **2016**


iTHO

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FOR SUPREMACY IN SCIENCE & MATHEMATICS

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**Class 7th****Syllabus & Sample Questions**

Nutrition in Plants and Animals, Fibre to Fabric, Heat, Acids, Bases and Salts, Physical and Chemical changes, Weather, Climate and Adaptations, Winds, Storms and Cyclones, Soil, Respiration in Organisms, Transportation in Animals, Reproduction in Plants, Motion and Time, Electric Current and its effects, Light, Water, Forests, Integers, Fractions and Decimals, Data Handling, Simple Equations, Lines and Angles, Triangles, Comparing Quantities, Rational Numbers, Practical Geometry, Perimeter and Area, Algebraic Expressions, Exponents and Powers, Symmetry, Visualising Solid Shapes, Analogy, Blood relation, Classification, Coding Decoding, Direction Test, Letter series, Mixed series, Non verbal & Number series.

The actual question paper contains 50 questions. The duration of the test paper is 60 minutes.

1. Look at the given figure carefully.



In the above figure, which mode of the heat transfer has been shown?

- (A) Conduction
(B) Convection
(C) Radiation
(D) All of these
(E) None of these
2. In which one of the following systems the lungs belongs to?
- (A) Digestive system
(B) Respiratory system
(C) Nervous system
(D) Excretory system
(E) None of these
3. Which of the following is a time measuring instrument?
- (A) Barometer (B) Thermometer
(C) Sundial (D) Scale
(E) None of these
4. A rainbow in the sky is the spectrum of colours. How many colours are involved in the formation of a rainbow?
- (A) Ten (B) Seven
(C) Eight (D) All of these
(E) None of these
5. Identify the secondary consumer from the following.



(E) None of these

6. The ages of four people are in proportion as $A : B :: C : D$. Which one of the following options is correct about the age of A?

(A) $\frac{\text{Age of D} \times \text{Age of C}}{\text{Age of B}}$

(B) $\frac{\text{Age of D} \times \text{Age of B}}{\text{Age of C}}$

(C) $\frac{\text{Age of B} \times \text{Age of C}}{\text{Age of D}}$

(D) All of these

(E) None of these

7. What least value should be given to '*' so that the number $6135*2$ is exactly divisible by 9?

(A) 0 (B) 1

(C) 2 (D) 3

(E) None of these

8. Maria weaves 25 baskets in 35 days. In how many days will she weave 110 baskets?

(A) 36 days

(B) 72 days

(C) 154 days

(D) 188 days

(E) None of these

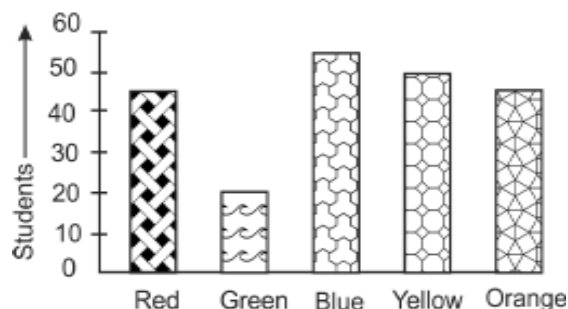
9. Mariam spends three fifth of her monthly income on food and one seventh on clothing. What is her approximate monthly income if her monthly savings is ₹ 6300?

(A) ₹ 22500 (B) ₹ 28450

(C) ₹ 24500 (D) ₹ 21450

(E) None of these

10. Two hundred students of class 7th and 8th were asked to name their favourite colour for their school building. The results are shown in the following bar graph.



The most preferred colour is :

(A) Blue (B) Green

(C) Red (D) Yellow

(E) None of these

11. What comes in place of the question marks to make the series in proper sequence?

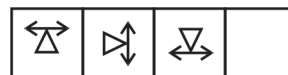
BbB DdD ? ? GgG HhH

(A) LlL, FfF (B) AaA, FfF

(C) NnN, EeE (D) EeE, FfF

(E) None of these

12. What comes next in the given series?



1 2 3 4

(A) (B)

(C) (D)

(E) None of these

Answers

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