



# HIM ACADEMY PUBLIC SCHOOL

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Affiliated to H.P. Board of School Education, Dharamshala

School Code: 1573

**Entrance Test - 2018**

**Class - 10+1 (English)**

**Time : 30 min.**

**[Set - I]**

**Max. Marks : 20**

**1. Read the following passage below and answer the questions that follow:-**

The most important thing is that we should have freedom of thought. This is not so easy as it sounds for everyone likes to have this freedom for himself, but is not ready to give it to others, when they express different opinions. This is particularly the case when the differences of opinion arise on such important matters as religion or politics. But if we refuse to let other people hold their opinions on these matters and specially if we try to force them to accept our own, progress is impossible. If everyone went on thinking the same thing as his ancestors thought, progress would come to an end because as the Buddha said, "What a man thinks he becomes." Our thoughts depend a great deal upon what we read and what we talk about. So, if we think exactly what our forefathers thought, we shall remain in the conditions in which they were.

**Answer the following questions:-**

(i) What is the most important thing according to the author?

(ii) Why is freedom of thought denied to people?

(iii) When would progress come to an end?

[3×1=3]

**2. Using the following key-words, form a passage and also provide a suitable title for it.**

Collision between truck and car----- carelessness --- craze for speed - reckless driving - drivers of both vehicles injured badly - need for safe driving.

[5]

**3. Write a paragraph in about 100 words on any one of the following :-**

i) Save Water : Save Life

ii) Cruelty Towards Women

iii) Stupidity of some of Our customs

[5]

**4. Fill in the blanks with the correct options from those given below :-**

Many people (a) ..... have grown-up in multichild families think

(b) ..... the single-child family (c) ..... as very fortunate one.

a) 1) who      2) which      3) when      4) whose

b) 1) this      2) that      3) what      4) if

c) 1) be      2) is      3) am      4) are

[3×1=3]

**5. Look at the words and phrases given below. Rearrange them to form meaningful sentences.**

i) has to look / no rules / how our / there are / as to / home


ii) thing is / inhabiting them / should enjoy / the important / that we [2×1=2]

**6. Change the narration of the following sentences :-**

i) The king was impressed with the magician and asked, 'What can I do for you?'

ii) 'What do you want?' She asked him.

[2×1=2]



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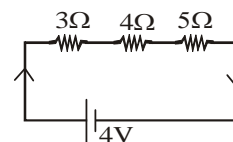
**Entrance Test - 2018**  
**Class - 10+1 (Science)**  
**[Set - I]**

**[Section - A (Physics)]**

**Time : 25 min.**

**Max. Marks - 15**

1. State Ohm's law. [1]
2. Write S.I. unit of resistivity. [1]
3. Write S.I. unit of power of lens. [1]
4. What is focal length? [1]
5. Define principal focus of concave mirror. [1]
6. How many electrons make one coulomb of charge? [2]
7. Define reflection of light. State laws of reflection. [2]
8. How much work is done in moving a charge of 2C across two points having a potential difference of 12V? [2]
9. Find the total resistance in the following circuit : [2]



10. Define magnification of a lens. What are the signs used for magnification in convex lens and concave lens? [2]

**[Section - B (Chemistry)]****Time : 25 min.****Max. Marks - 15**

- .....
- How many valence electrons will Oxygen have? [1]
  - Identify the compound with triple bond: [1]  
 $C_5H_8$ ,  $C_4H_{10}$ ,  $C_2H_2$
  - Balance the given equation : [1]  
 $Fe + H_2O \rightarrow Fe_3O_4 + H_2$
  - What is chemical formula of Plaster of Paris? [1]
  - Define acid and base with example. [1]
  - Write IUPAC name of following compounds : [1]  
 a)  $CH_3 - CH_2 - \underset{\substack{| \\ Br}}{CH} - CH_3$
  - $CH_3 - CH_2 - CH = CH_2$  [2]
  - Write down electronic configuration of : [2]  
 a) Sodium (At no = 11)  
 b) Pottasium (At no = 19)
  - Differentiate between exothermic endothermic reactions. [2]
  - What do you mean by sublimation? Give one example. [2]
  - What is homologous series? Write first two members of alcohol series. [2]

**[Section - C (Biology)]****Time : 30 min.****Max. Marks - 20**

- .....
- Define Heredity. [1]
  - What are Homologous organs? [1]
  - What is the basic and functional unit of Kidney? [1]
  - Which intestine is the complete site of digestion and absorption of food? [1]
  - Which of the following organelle is called 'power House of cell'? [1]
  - What is meant by Double circulation? [1]
  - Write two differences between blood and lymph. [2]
  - How are alveoli designed to maximize the exchange of gases? [2]
  - What is the difference between Biodegradable and Non-biodegradable substances? [2]
  - Explain how the sex determination in human beings occur? [2]
  - Draw well labelled diagram of Heart. [3]  
 OR  
 Draw well labelled diagram of flower.
  - Write three difference between Arteries and veins? [3]



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**Entrance Test - 2018**  
**Class - 10+1 (Maths)**

Time : 30 min.

[Set - I]

Max. Marks : 20

**[Section - A]**

1. Find the value of K for which the quadratic equation :

$$(K+4)x^2 + (K+1)x + 1 = 0 \text{ has equal roots.}$$

2. If  $2x$ ,  $x+10$ ,  $3x+2$  are in A.P. find the value of  $x$ .

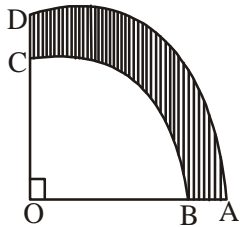
3. Find the distance between the points  $A(a+b, a-b)$  and  $(a-b, -a-b)$ .

4. The length of a tangent from a point A at distance 5cm from the centre of the circle is 4cm. Find the radius of the circle.

[4×2=8]

**[Section - B]**

5. If  $OA = 21\text{m}$ ,  $OB = 14\text{m}$  then find the area of the shaded part.



6. How many coins 1.75cm in diameter and 2mm thick must be melted to form a cuboid  $11\text{cm} \times 10\text{cm} \times 7\text{cm}$ .

7. A box contains 5 red, 8 white and 4 green marbles. One marble is taken out of the box at random. Find the probability that the ball is not green.

[3×4=12]