



HIM ACADEMY PUBLIC SCHOOL

Hira Nagar, Hamirpur (H.P.)-177001 Ph.:(01972)-222829, 223428

Website : WWW.haps.co.in

e.mail: haps 1998@gmail.com

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

School Code: 1573

Entrance Test - 2018

Class - 10th

[Set - I]

Time- 2:00 hrs.

M.M.: 80

[Part-1 (English)]

Note: Candidates are required to give their answers in their own words as far as practicable. Marks allotted to each question are indicated against it.

1. Read the passage given below and answer the questions that follow:

One of the greatest mysteries of bird life is travelling. Every year during autumn and early winter birds travel from northern regions of Asia, Europe and America to the southern warmer lands. They make the return journey again during spring and early summer. They are very punctual unless they are delayed by bad weather. They face many dangers and hardships while travelling long distances through the air over hills, forests, plains and large stretches of water. Sometimes sudden storms arise and drive them far out of course. Often they are blown right out to sea and are drowned in the wild waves. At night bright lights attract and confuse the birds. They cannot fly at their fastest. The migration speed is usually from 48 to 64 km an hour and rarely exceeds 80.

Answer the following questions:

- (a) When do the birds travel from northern regions to southern warmer lands?
 - (b) Why do they travel from there?
 - (c) What danger do they face when they are flying over the sea?
 - (d) What happens to these birds at night when they see the lights?
 - (e) Which word in the passage means coming/doing something at the fixed time? (5)
2. Write a letter to your father stating what you want to be/your ambition in life. (5)
3. Write a paragraph in about 80 words on any one of the following:- (5)
- (a) Independence Day
 - (b) Morning Walk.
4. Do as directed: (5)
- (a) She teaches me English. (Change into Negative sentence)
 - (b) You gave him a pen. (Change the Voice)
 - (c) She wrote a letter. (Change into Past Perfect Tense)
 - (d) He said to me, "Was he happy?" (Change the narration)
 - (e) She will be going to Delhi. (Change into Interrogative Sentence)

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[Part-3 (Maths)]

Note : All questions are compulsory.

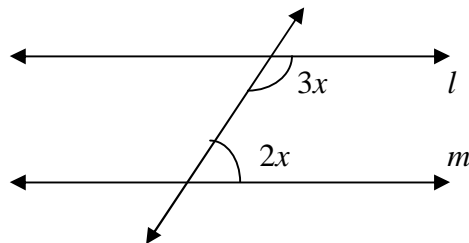
Q.1 Do as directed

- a) $(a-b)^3 = \underline{\hspace{2cm}}$.
- b) Volume of cone = $\underline{\hspace{2cm}}$.
- c) Find zero of $p(x) = 2x+1$.
- d) Find the value of the polynomial $p(x) = 3x^2$ at $x = \frac{2}{\sqrt{3}}$

(4×1= 4)

Q.2 Solve the following:

- a) Factorise $2x^2 - 5x + 3$
- b) Evaluate using suitable identity $(999)^3$
- c) Find the total surface area of a hemisphere of radius 10 cm (use $\pi = 3.14$).
- d) Find the value of x in the given fig. where l/m .



- e) Find the value of 'k' if $(x-1)$ is a factor of $px = 2x^2 + kx + \sqrt{2}$. (5×2 = 10)

Q.3

- a) Find quotient and remainder when $x^3 + 3x^2 + 3x + 1$ is divided by $x + 2$ using long division.
- b) Find the cost of digging a cuboidal pit 8m long, 6m broad and 3m deep at the rate of ₹30 per m^2 . (2×3=6)

[Part-4 (Science)]

1. Name the three subatomic particles present in an atom. (1)
2. Define average speed. (1)
3. Name the tissue which join muscles with bones. (1)
4. What is momentum? Give its unit. (1)
5. What are the functions of Nucleus? (2)
6. (a) Calculate the molar mass of NH_3 .
(b) How many atoms are present in H_2SO_4 ? (2)
7. Write down the uses of ultrasounds. (2)
8. Draw a well labelled diagram of animal cell. (2)
9. A body starts from rest and acquires a velocity of 12 m/s in 5 seconds. Calculate the distance moved. (2)
10. (a) Differentiate between loudness and intensity of sound.
(b) A hammer of mass 500g moving at 50 m/s, strikes a nail. The nail stops the hammer in a very short time 0.01seconds. What is the force on the hammer? (2×1.5=3)
- 11.(a) Write down the composition of blood. What are the functions of blood?
(b) Define isobars with examples. (2×1.5=3)