



# HIM ACADEMY PUBLIC SCHOOL

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

School Code: 1573

Entrance Test - 2018

Class - 9<sup>th</sup>

[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:

Man takes delight in overcoming obstacles. These obstacles in climbing a mountain are physical. A climb to a summit means endurance, persistence and will power. The demonstration of these physical qualities is no doubt exhilarating as it was for me also.

Answer the following questions briefly:

- (a) What delights a man?
  - (b) What does the narrator say about 'a climb to a summit'?
  - (c) How does a man feel when he climbs a mountain?
  - (d) Name the lesson from where these lines have been taken?
  - (e) Find a word in the passage which means 'exciting'. (5)
2. Write an application to your Principal requesting him to remit your fine. Give suitable reasons. (5)
3. Write a paragraph in about 80 words on any one of the following:-
- (a) Importance of Games
  - (b) My Aim in Life. (5)
4. Do as directed:
- (a) She teaches me English (Change into Negative sentence)
  - (b) She is reading a book. (Change the Voice)
  - (c) She helped you. (Change into Past Perfect Tense)
  - (d) He said to me, "You are a good boy" (Change the narration)
  - (e) She is writing a letter. (Change into Present Indefinite Tense) (5)

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**[Part-3 (Maths)]**

*Note : All questions are compulsory.*

**Q.1** Do as directed

- a) Find the solution of  $2x-3=7$ .
- b) What will be the unit digit of the square of 1234.
- c) Coefficient of  $x^2$  in the expression  $1+ x - x^2$  is \_\_\_\_\_.
- d) Surface area of cylinder = \_\_\_\_\_.
- e)  $(a-b)^2 =$  \_\_\_\_\_.

(5×1= 5)

**Q.2** Solve the following:

- a) Find the square root of 1764 by prime factorisation method.
- b) Find the product  $(5-2x)(3+x)$ .
- c) Use identity find  $a^2-b^2 = (a + b)(a - b)$ , find  $(51^2 - 49^2)$ .
- d) The area of a trapezium shaped field is  $480 \text{ m}^2$ , the distance between two parallel sides is 15 m and one of the parallel side is 20 m. Find the other parallel side.
- e) Subtract  $49-7ab+3b+12$  from  $12a - 9ab + 5b - 3$ .

(5×3 = 15)

**[Part-4 (Science)]**

- 1. The central dense round body in the centre of cell is called
  - a) Cytoplasm    b) Nucleus    c) Mitochondria    d) None of these    (1)
- 2. Define malleability. (1)
- 3. What is force? (1)
- 4. Name the organ in human beings which produce sound. (1)
- 5. The process of depositing a layer of any desired metal on another material by means of electricity is called..... (1)
- 6. What happens when dilute sulphuric acid is poured on a copper plate? Write word equation of the reaction involved. (2)
- 7. State the difference between eukaryotes and prokaryotes. (2)
- 8. Explain in what way noise pollution is harmful to humans. (2)
- 9. What is green house effect? Name two green house gases. (2)
- 10. Aluminium foils are used to wrap food items. Why? (2)
- 11. (a) Differentiate between metals and nonmetals. (2)
- (b) Explain the difference between pure air and polluted air. (3,2)