

16.07.19 EVERWIN MATRIC.HR.SEC.SCHOOL Time:45min.  
Std: X (K-N) TT SCIENCE Marks: 25

I. Answer the following: 5x1=5

1. \_\_\_\_\_ is the least count of travelling microscope.
2. Aluminium is a powerful \_\_\_\_\_.
3. Breathing movements are brought by the movement of the \_\_\_\_\_.
4. Each lung is enclosed by a double membraneous\_\_\_\_\_.
5. The midbrain includes \_\_\_\_\_.

II. Answer in short: 5x2=10

Part - A (any one)

6. Give the uses of simple microscope.
7. What are the causes of myopia?  
Part - B (any one)
8. Define aluminothermic process.
9. Write the ores of Aluminium.

Part - C (any three)

10. Name the three glands present on the integument (skin) of rabbit.
11. What is heterodont dentition?
12. Differentiate inspiration and expiration.
13. What does the forebrain comprise of?

III. Answer in detail: 2x5=10

Part - A (any one)

14. Explain the construction and working of a compound microscope?
15. Write & explain the types of telescope based on the things we observe?

Part - B (any one)

16. How will you extract the Aluminium from Bauxite
17. What happens when aluminium reacts  
i) Air ii) Hcl iii) Water iv) Conc. H<sub>2</sub>SO<sub>4</sub>

16.07.19 EVERWIN MATRIC.HR.SEC.SCHOOL Time:45min.  
Std: X (F-J) TT MATHS Marks: 25

I. Answer the following: 3x5=15

1. Find the greatest number consisting of 6 digits which is exactly divisible by 24,15,36?
2. Prove that  $2^n + 6 \times 9^n$  is always divisible by 7 for any positive integer n.

3. Solve :  $5x \equiv 4 \pmod{6}$

II. Answer the following: 3x2=6

4. Find the least positive value of x such that  $71 \equiv x \pmod{8}$
5. If  $13824 = 2^a \times 3^b$  then find a and b.
6. If m, n are natural numbers, for what values of m, does  $2^n \times 5^m$  ends in 5?

III. Fill in the blanks: 4x1=4

7. The HCF of numbers of the form  $2^m$  and  $3^n$  is \_\_\_\_\_.
8. Can you think of a positive integer a, b such that  $a^b = b^a$ ?
9. How many integers exists which leave a remainder of 2 when divided by 3?
10. The positive value of K such that  $(K-3) \equiv 5 \pmod{11}$  are \_\_\_\_\_.

I. Fill in the blanks with the appropriate phrases given below:

5x1=5

This is Zigzag announced Visu. i) \_\_\_\_\_. His full name is ii) \_\_\_\_\_. How I'm going to iii) \_\_\_\_\_! So beautifully he talks! He can even recite (iv) \_\_\_\_\_! The object of all (v) \_\_\_\_\_ was standing cool and unmoved, with an expression of almost - human grumpiness in his cola - coloured eyes.

II. Identify the character/speaker:

5x1=5

1. 'You're both quite mistaken.
2. Great hit indeed.
3. I thought it was a scientific fact that birds. Couldn't snore.
4. Don't worry children.
5. May I take Zigzag to school?

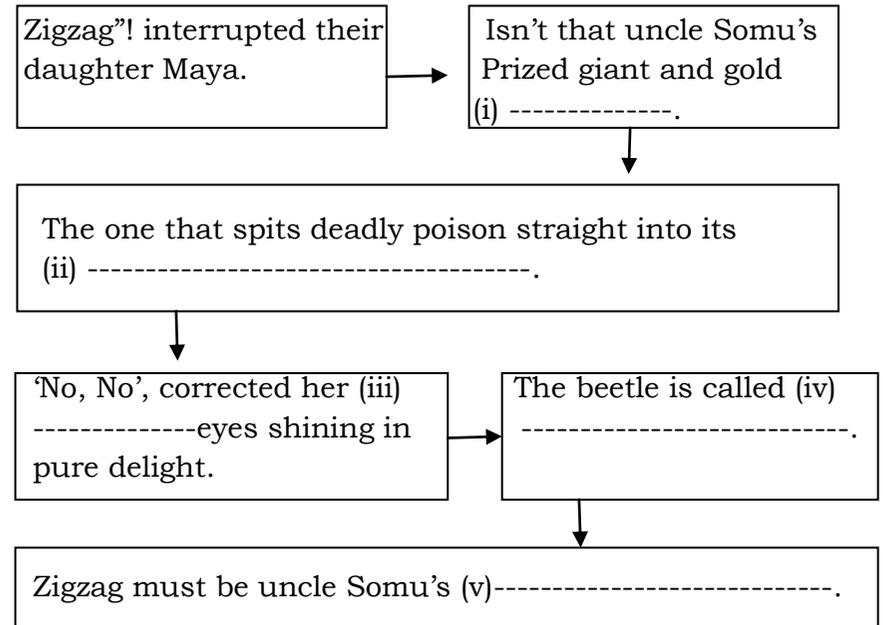
III. Choose the correct answer:

5x1=5

1. Maya was \_\_\_\_\_ years old girl.  
a) seven      b) nine      c) eight      d) ten
2. Uncle Somu brought boomerang from \_\_\_\_\_.  
a) Alaska      b) Japan      c) Africa      d) Australia
3. Dr. Somu cured the \_\_\_\_\_ of with doctor.  
a) son      b) daughter      c) father      d) mother
4. Zigzag perched on the \_\_\_\_\_ went off to sleep.  
a) Curtain red      b) Plastic pipe      c) Window      d) Ceiling fan
5. The bird choses to communicate only in \_\_\_\_\_.  
a) Hindi      b) Tamil      c) Snorish      d) French

IV. Observe the mind map and fill in the incomplete details:

5x1=5



V. Answer in a paragraph of about 100 words:

1x5=5

What was the turn of events when Zigzag was taken to the clinic?