

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

I. Fill in the blanks: 5x1=5

1. Astigmatism can be correct by using _____ lens.
2. Hydraulic method is also called as _____.
3. In Leech, blood is sucked by _____.
4. In leech, the coelomic fluid contains _____.
5. Suprapharyngeal ganglion of Leech is also called as _____.

II. Answer in short: 5x2=10

Part - A (any one)

6. Write the advantages of telescopes?
7. What is hypermeteropia and how it can be corrected?

Part - B (any one)

8. Define Matrix

9. Match the following:

Carbonate ores

Formula

- | | | |
|--------------|---|----------------------|
| a) Marble | - | i) FeCO_3 |
| b) Siderite | - | ii) MgCO_3 |
| c) Magnesite | - | iii) CaCO_3 |

Part - C (any three)

10. What is hirudin? Mention its function.
 11. What is cocoon?
 12. Why is the skin of leech moist and slimy? In what way, this nature help the leech?
 13. How much blood can a Leech suck and how long does it take for leech to complete digestion and absorption of a full meal?
- III. Answer in detail: 2x5=10

Part - A (any one)

14. Explain the construction and working of a compound microscope?
15. For a person with hypermeteropia, the near point has moved to 1.5m. Calculate the focal length of the correction lens in order to make his eyes normal.

Part - B (any one)

16. Explain the principle and method of froth floatation process.
17. Explain Magnetic separation method.

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

I. Fill in the blanks: 3x1=3

1. The concept of constitution first originated in _____.
2. The constitution of India was adopted on _____.
3. _____ are writs that are mentioned in Article.

II. Choose the correct answer: 4x1=4

1. _____ are not enforceable in any court.
a) Fundamental Rights b) Fundamental duties
c) Directive Principles of state policy
2. Abolition of titles except military and academic comes under _____.
a) Right to freedom b) Right to equality c) Right to Religion
3. A foreigner can acquire Indian citizenship through.
a) Descent b) Registration c) Naturalisation
4. We borrowed the Fundamental Duties from the _____.
a) Russian constitution b) American Constitution
c) Canadian Constitution

III. Match the following: 5x1=5

- | | | |
|-----------------------|---|----------------------------|
| 1. Magna Carta | - | 42 nd Amendment |
| 2. Citizenship Act | - | Quo Warranto |
| 3. The Preamble | - | 1215 |
| 4. Classical Language | - | 1955 |
| 5. Writ | - | Malayalam |

IV. Give short answers: 4x2=8

1. What are the classical languages in India?
2. What is Habeas corpus?
3. What is meant by citizenship?
4. List out the three heads of the relations between the centre and states

V. Answer in Detail: 1x5=5

1. Point out the fundamental rights.

10.07.19 EVERWIN MATRIC.HR.SEC.SCHOOL Time:45min.

Std: X (A-E)

TT MATHS

Marks: 25

I. Graph:

$$1 \times 7 = 7$$

1. Draw the graph of x^2-9 and state their nature of solutions.

II. Answer the following:

$$2 \times 5 = 10$$

2. Find the HCF of 396, 504, 636

3. If d is the highest common factor of 32 and 60, find x and y satisfying $d=32x+60y$

III. Answer the following:

$$3 \times 2 = 6$$

4. Find a_8 and a_{15} whose n^{th} term is

$$a_n = \begin{cases} \frac{n^2-1}{n+3}; & n \text{ is even, } n \in \mathbb{N} \\ \frac{n^2}{2n+1}; & n \text{ is odd, } n \in \mathbb{N} \end{cases}$$

5. Find the next three terms of $\frac{1}{4}, \frac{2}{9}, \frac{3}{16}, \dots$

6. Prove that consecutive positive integers are always Co-prime.

IV. Fill in the blanks:

$$2 \times 1 = 2$$

7. When a positive integer is divided by 3. What are the possible remainders?

8. _____ is always lesser than divisor.