07.08.19 EVERWIN MATRIC.HR.SEC.SCHOOL Time:45min.
Std: X (A-E) TT MATHS Marks: 25

I. Choose the correct answer: 5x1=5

1. P^2-2P-8=_____.
   a) (P+4) (P-2) b) (P-4) (P+2) c) (P-4) (P-2) d) (P+4) (P+2)
2. Solution of quadratic equation $3x^2$-13x+12=0 is _____.
   a) x=-3, $\frac{-4}{3}$ b) x=3, $\frac{-4}{3}$ c) x=3, $\frac{4}{3}$ d) x=3, $\frac{3}{4}$
3. The value of x if x^2+9x=-20 is _____.
   a) -4, -5 b) 4, 5 c) -4, 5 d) 4, -5
4. The solution of $2x^2$-8=0 is equal to _____.
   a) x=2, -2 b) x=2 c) x = -2 d) x=4
5. (a-7) (a+2)=0 is equal to _____.
   a) a^2+5a-14=0 b) a^2-5a-14=0 c) a^2-5a+14=0 d) a^2+5a+14=0

II. Answer the following: 4x5=20

6. A girl is twice as old as her sister. Five years hence, the product of their ages (in years) will be 375. Find their present ages.
7. A flock of swans contained x^2 members. As the clouds gathered, 10x went to a lake and one-eighth of the members flew away to a garden. The remaining three pairs played about in the water. How many swans were there in total?
8. There is a square field whose side is 10m. A square flower bed is prepared in its center leaving a gravel path all around the flower bed. The total cost of laying the flower bed and gravelling the path at ₹3 and ₹4 per square metre is ₹364 respectively. Find the width of the gravel path.
9. If the difference between a number and its reciprocal is $\frac{24}{5}$, find the number.

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

I. Answer the following: 5x1=5

1. Convert 50°c into Kelvin.
2. Solutions which contain three components are called _____.
3. Each neuron can make as many as _____ of synaptic contacts with other neurons.
4. _____ neurons are found in the cerebral cortex of the brain.
5. _____ is the controlling centre of all the body activities.

II. Answer in short: 5x2=10

Part - A (any one)

6. Define thermodynamic temperature.
7. What are the features of heat energy?

Part - B (any one)

8. Define the term: Solution.
9. Give an example each (i) gas in liquid ii) solid in liquid

Part - C (any three)

10. Define stimulus.
11. What is neuroplasm?
12. Name the three types of nervous system.
13. What is the function of meningeal membranes?

III. Answer in detail: 2x5=10

Part - A (any one)

14. Find the final temperature of a copper rod whose area of cross section changes from 10m^2 to 11m^2 due to heating. The copper rod is initially kept at 90K. (coefficient of superficial expansion is 0.0021/k)
15. Explain about superficial expansion with diagram.

Part - B (any one)

16. Write notes on (i) Aqueous Solution ii) Non-Aqueous Solution

(or)

17. Write notes on various factors affecting solubility.

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

Std: X (K-N) TT SOCIAL SCIENCE Marks: 25

I. Choose the correct answer: 4x1=4

1. The constitutional head of the union is _____.
   a) The President b) The Chief Justice
   c) The Prime Minister d) Council of Minister
2. The supreme court of India, New Delhi was inaugurated on _____.
   a) December 20, 1949 b) January 28, 1950
   c) April 5, 1950 d) May 11, 1989
3. Under which article the president is vested with power to proclaim Financial Emergency _____.
   a) Article 352 b) Article 360 c) Article 356 d) Articles 365
4. What is minimum age laid down for a candidate to seek election to the Loksabha _____.
   a) 18 years b) 21 years c) 25 years d) 30 years

II. Fill in the blanks: 4x1=4

1. _____ are the states where the President rule was imposed for minimum number of times.
2. _____ is the leader of the nation and chief spokesperson of the country.
3. At present, the Supreme Court consist of _____ judge including the Chief Justice.
4. _____ is the Ex-officio chairperson of the Rajya Sabha.

III. Match the following: 4x1=4

1. Lok Sabha	-	Office of the Vice President
2. Rajya Sabha	-	18 members
3. Article 53	-	39 members
4. Article 63	-	Executive power of president

IV. Answer the following: 4x2=8

1. How is president of India elected?
2. What is money bill?
3. List out any two special powers of the attorney general of India.
4. What is the qualification of Judges of the Supreme Court?

V. Answer in Detail: 1x5=5

1. What are the Duties and functions of Prime Minister of India?