

I. Choose the most appropriate synonym of the underlined words: 5x1=5

Tara-Tarini is the (i) patron - deity for sailors and non-conventional (ii) renewable energy resources are used in this boat. It is a 55 foot sailing vessel built (iii) indigenously. Women showed their (iv) accomplishments by (v) circumnavigating the world for 254 days all alone in this sailboat.

- i) a) captain b) protector c) witch d) assailant
ii) a) frail b) appalling c) perishable d) inexhaustible
iii) a) domestically b) globally c) foreignly d) spuriously
iv) a) failures b) attempts c) defeats d) achievements
v) a) elude around b) travel around
c) chase around d) immobilise

II. Choose the most appropriate antonym of the underlined words: 5x1=5

How well they were (i) acquainted with the sailing boat. They started with some (ii) theoretical courses and they (iii) hardly saw any land mass and they dealt with emergencies when sea was (iv) rough. They were (v) absolutely awestruck.

- i) a) abreast b) ignorant c) informed d) conversant
ii) a) abstract b) academic c) logical d) practical
iii) a) rarely b) seldom c) practically d) frequently
iv) a) harsh b) rugged c) calm d) coarse
v) a) exactly b) definitely c) actually d) doubtfully

III. Answer any five of the following questions in brief: 5x2=10

1. Where did the crew undergo their basic training?
2. Who is Tara-Tarini? After whom was the sailboat named?
3. Which quality of the skipper helped to bring out a successful expedition.
4. Mention the special features of INSV Tarini.
5. What sort of training did the crew undergo before their expedition?
6. What challenging tasks did the team face during their voyage?
7. Mention the celebrations which the crew enjoyed during their expeditions.

IV. Answer the following in a paragraph: (5)

1. Write the factors responsible for the all-women Indian Navy crew to carry out their expedition.

I. Choose the correct answer: 5x1=5

1. The solution of $4x^2-22=x^2+5$ is _____.
a) 3 b) -3 c) 3, -3 d) 9
2. $(n-3)(n+5)=0$ is equal to _____.
a) $n^2+2n-15=0$ b) $n^2-2n-15=0$
c) $n^2+2n+15=0$ d) $n^2-2n+15=0$
3. The solution of $2x-1=x^2$ is equal to _____.
a) $x=-1$ b) $x=1$ c) $x = 1,1$ d) $x = -1, -1$
4. $a^2+2a-15=$ _____.
a) $(a-5)(a-3)$ b) $(a+5)(a+3)$
c) $(a+5)(a-3)$ d) $(a-5)(a+3)$
5. The value of x if $2x^2+7x+3=0$ is _____.
a) $3, \frac{1}{2}$ b) $-3, \frac{-1}{2}$ c) 3 d) $-3, 1$

II. Answer the following: 4x5=20

6. A garden measuring 12m by 16m is to have a pedestrian pathway that is 'w' meters wide installed all the way around so that it increases the total area to 285m². What is the width of the pathway?
7. The hypotenuse of a right angled triangle is 25cm and its perimeter 56cm. Find the length of the smallest side.
8. The product of Kumaran's, age (in years) two years ago and his age four years from now is one more than twice his present age. What is his present age?
9. A pole has to be erected at a point on the boundary of a circular ground of diameter 20m in such a way that the difference of its distances from two diametrically opposite fixed gate P and Q on the boundary is 4m. Is it possible to do so? If answer is yes then at what distance from the two gates should the pole be erected?

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

I. Fill in the blanks: 5x1=5

1. _____ is the absolute scale of temperature of the body.
2. A solution is a _____ mixture.
3. Each neuron can transmit _____ nerve impulses, per second.
4. _____ neurons are found in retina of eye and olfactory epithelium of nasal chambers.
5. Non-myelinated nerve fibres form the _____ matter of the brain.

II. Answer in short: 5x2=10

Part - A (Any one)

6. Define one calorie.
7. What is thermal energy?
8. The aquatic animals live more in cold region. Why?
9. Define the term: Solute

Part - C (any three)

10. Define neurotransmitters.
11. What are synaptic knobs?
12. List out the types of neuron, on the basis of function.
13. What does the peripheral nervous system comprise of?

III. Answer in detail: 2x5=10

Part - A (any one)

14. Write in detail about the expansion in solids?
15. What are the effects of heat energy?

Part - B (any one)

16. Write notes on various factors affecting solubility.
17. Tabulate the different types of binary solutions.