

STD:- IX

MARKS: 50

Name: _____

Application Form No: _____

1. Complete the following sentences giving honest and practical answers as well as reasons for your answers: - [8]

- a. If my friend is unwell and absent in school _____
- b. If I see my friend sleeping in class _____

2. The healthy living includes four main things they are [2]

- a clean body
- a good food
- good habits
- a clean mind

Why should you practice the good habits listed below?
Give reason for each of them.

1. Avoid spitting on the ground _____
2. Cover nose and mouth while sneezing or coughing _____

3. Answer the following: - [6]

1. If taste is to tongue, Balance is to _____
2. If poultry is to chicken, Pisciculture is to _____
3. If polite is to harsh, cheerfulness is to _____
4. If love is to Mother Teresa, Ahimsa is to _____
5. If cruelty is to kindness, lies is to _____
6. If food is to stomach, blood is to _____

4. Answer the following question: [9]

- a. Eyes are precious. Write any 3 simple rules which you should follow to protect your eyes.
- b. Name some (minimum three) processes responsible for releasing CO₂ into the atmosphere
- c. What do you mean by balanced diet? Given below is a list of food items. Select your lunch.

Burger, Dal, Rice, Cold drink, salad, Rice, Orange Juice, cake, Butter milk, Palak Panner

5. Creativity is the power of the mind to develop new ideas and thoughts that inspire people to excel in something. Creativity in any area is the making of something new and special in that area. [10]

Now, you use your imagination and creativity by using following figures to draw a human being.

6. Excessive Television viewing may lead to the following hazards. Prioritize them according to you.

[5]

- a. You loose your imagination.
- b. You become a couch potato.
- c. You spoil your eyesight.
- d. You start getting headaches.
- e. You become fat and lazy.

7. Match the following and write them as complete sentences.

[10]

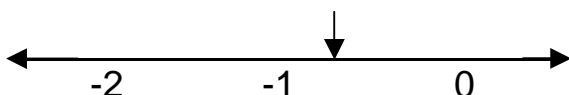
What bothers me
happy

How I should think to be

- | | |
|---|---|
| a. My favourite food was not on the table today | 1. That is the best way to study daily and do exams well and easily |
| b. I always have to give half of anything I get to my brother | 2. She does it only for my good because she loves me |
| c. I do not like it when my mother corrects me | 3. Yesterday the food I like was there. It is myDad's turn today I have to be fair. |
| d. It is so boring to do home- work evening other. | 4. He also gives me half of what he gets. This is how we show our love for each |

Q-1 Choose the correct alternative from the given (10)

(1) Which rational number does the pointer on the number line show?



- (a) -1.2 (b) -0.4 (c) 1.2 (d) -0.8

(2) The circumference of a circle is _____ to diameter.

- (a) directly proportional (b) Inversely proportional (c) equal to (d) None of these

(3) For $2:3 :: x:5$ to be in proportion, the value of 'x' should be

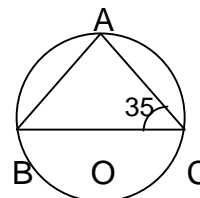
- (a) 4 (b) 3 (c) x (d) $\frac{10}{3}$

(4) Which set of numbers among the following represent the sides of right angle triangle?

- (a) (8, 4, 15) (b) (6, 8, 10) (c) (4, 5, 6) (d) ($\sqrt{2}$, $\sqrt{3}$, $\sqrt{4}$)

(5) Measure of angle A = _____

- (a) 90 (b) 45 (c) 55 (d) 35



(6) $\frac{1}{2} + \frac{2}{3} + \frac{3}{4} + \frac{4}{9} =$ _____

- (a) $\frac{10}{18}$ (b) $\frac{25}{85}$ (c) $\frac{85}{36}$ (d) $\frac{75}{36}$

(7) 15 % of certain quantity is 75. The quantity is

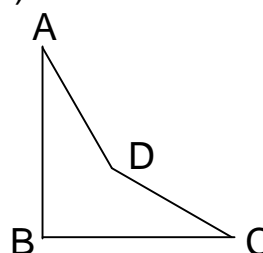
- (a) 600 (b) 500 (c) 400 (d) 300

(8) The rainfall at a place from 1st June to 6th June are 3.1 cm., 2.3 cm., 4.7 cm., 3.6 cm., 1.9 cm., & 2.4 cm. The average rainfall per day is _____ cm.

- (a) 3.5 cm (b) 2.57 cm (c) 4.7 cm (d) 3.0 cm

(9) ABCD is a

- (a) Convex quadrilateral
(b) Concave quadrilateral
(c) Cyclic quadrilateral
(d) It is not a quadrilateral



(10) If $a + 2b = 10$ and $ab = 15$, then the value of $a^3 + 8b^3$ is _____

- (a) 100 (b) 200 (c) 50 (d) 150

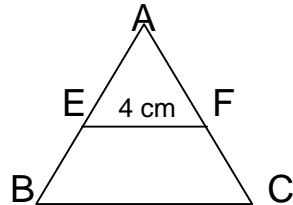
Q-2 Do as directed

(20)

(1) Father is twice as old as his son. Ten years ago, father was thrice as old as his son .Find out the present age of son.

(2) $[3 \times 10^{-6}] \div [6 \times 10^{-6}]$ in scientific form can be written as

(3) E and F are mid points of AB & AC. Find measure of BC.



(4) If $4^{3x} = 8^{x+4}$ then find the value of x

(5) Area of a rectangle and area of square are equal. Length of the rectangle is 9 cm. And its breadth is 4 cm. Find length of the square.

(6) Factorize $x^4 - 16$

(7) What number should be multiplied to 800 to make it a perfect cube

(8) Write the decimal form of

$$3(10^2) + 5\left(\frac{1}{10000}\right)$$

(9) Solve the following equation.

$$\left(\frac{x-2}{4}\right) + \frac{1}{3} = x - \left(\frac{2x-1}{3}\right)$$

(10) Find the value of

$$\sqrt{1^3+2^3+3^3+4^3+5^3}$$

Q-3 Do as directed.

(20)

(1) Five times a number increased by 7 is 27; what is the number?

(2) Find the missing number from the third square?

3	6
18	2

4	20
60	5

2	?
42	7

(3) Divide $9X^3 + 3X^2 + 7 - 5X$ by $3X - 1$

(4) Find the compound interest when principal = Rs. 3000, rate =5% per annum and time = 2 years.

(5) Ankur invested Rs.4444 in the shares of face value Rs. 100 each of a company. At the end of the year, the company declared dividend at 15% which gave Ankur an income of Rs. 600. At what price was the share quoted if the brokerage was 1%