



# Summer Valley School, Dehradun

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Class XII /Assignment 1

5 April 2020

## ENGLISH LANGUAGE:

### ANSWER KEY - TRANSFORMATION.

1. On his return, we asked him many questions.
2. Scarcely did/had he arrive/ arrived when the crowd went hysterical with joy.
3. Floods have interrupted the bus service.
4. How breath taking this scenery is!
5. So long as the offer lasts, you are entitled to a discount.
6. He is too tall to enter through this door.
7. The doctor advised him to drink at least 3 litres of water every day.
8. No other debater in our team is as good as sunita.
9. Besides scoring a century, he took three important wickets.
10. I regret my inability to accompany you.

Assignment 2: Answer will be discussed in class

## COMPUTER:

Q3.

Syllogism

The logical process of drawing conclusion from given propositions is called syllogism.

Q.4

Refer page number from 26 to 33

## CHEMISTRY:

1. Table 1.2 on page no. 5.
2. Space lattice- The three dimensional arrangement of structural units [atoms, molecules or ions] in a crystal.  
Unit cell- it is the smallest three dimensional group of lattice points which, when repeated in three dimensions in space gives the whole lattice of the crystal.
3. Answer on page 9.
4. Example 1.4 on page 12.
5. Example 1.5 on page 12.



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## **BIOLOGY:**

NOTE: THE FOLLOWING ARE THE ANSWERS FOR THE WORKSHEET-1 FOR CLASS XII

### **Q1.**

- i. SalmonellaTyphi
- ii. Streptococcus Pneumonia
- iii. Flavivirus
- iv. Alpha virus

### **Q2.**

- i. Typhoid
- ii. Typhoid
- iii. Pneumonia
- iv. Dengue
- v. Chikungunya

### **Q3.**

- i. Dengue
- ii. Chikungunya
- iii. Widal Test
- iv. Dengue
- v. Dengue

**Q4.** There is no vector. This is spread by droplets resulting from cough or sneezes of the infected person. Droplets may be directly inhaled or transmitted through contaminated objects e.g. pen, cup, door knobs or computer keyboards.



**MATHS:**

Class XII  
Mathematics (Worksheet 1)  
(Solutions)

$$(1) \begin{bmatrix} 1 & 0.5 & 0 & 0.5 \\ 2.5 & 2 & 1.5 & 1 \\ 4 & 3.5 & 3 & 2.5 \end{bmatrix}$$

$$(2) \begin{array}{l} x+y=3 \text{ --- (1)} \\ -x+y=1 \text{ --- (2)} \end{array} \quad \begin{array}{l} y-z=-1 \text{ --- (3)} \\ z-2x=1 \text{ --- (4)} \end{array}$$

Solving (1) & (2)      from eq (3) & (4)  
 $x=1, y=2$        $z=3$  &  $z=3$

$$(3) 3 \begin{bmatrix} x & y \\ z & w \end{bmatrix} = \begin{bmatrix} x & 6 \\ -1 & 2w \end{bmatrix} + \begin{bmatrix} 4 & x+y \\ z+w & 3 \end{bmatrix}$$
$$\begin{bmatrix} 3x & 3y \\ 3z & 3w \end{bmatrix} = \begin{bmatrix} x+4 & 6+x+y \\ -1+z+w & 2w+3 \end{bmatrix}$$

$$\begin{array}{l} 3x=x+4 \text{ --- (1)} \\ 3y=6+x+y \text{ --- (2)} \end{array} \quad \begin{array}{l} 3z=-1+z+w \text{ --- (3)} \\ 3w=2w+3 \text{ --- (4)} \end{array}$$

Solve  $x=2, y=4, z=1, w=3$

(4) No solution

$$(4) A^2 = \begin{bmatrix} \cos \theta & \sin \theta \\ -\sin \theta & \cos \theta \end{bmatrix} \cdot \begin{bmatrix} \cos \theta & \sin \theta \\ -\sin \theta & \cos \theta \end{bmatrix}$$
$$= \begin{bmatrix} \cos^2 \theta - \sin^2 \theta & \cos \theta \sin \theta + \sin \theta \cos \theta \\ -\sin \theta \cos \theta - \sin \theta \cos \theta & -\sin^2 \theta + \cos^2 \theta \end{bmatrix}$$
$$= \begin{bmatrix} \cos 2\theta & 2\sin \theta \cos \theta \\ -2\sin \theta \cos \theta & \cos 2\theta \end{bmatrix}$$
$$= \begin{bmatrix} \cos 2\theta & \sin 2\theta \\ -\sin 2\theta & \cos 2\theta \end{bmatrix}$$