





4. 'समय का सदुपयोग' विषय पर 100 शब्दों में अनुच्छेद लिखो |
5. किन्ही पांच कवियों का चित्र सहित परिचय दीजिए | (A4 साइज)

**नोट:- 21 जून से 30 जून तक का कार्य |**

1. कोई भी अपने जीवन की ऐसी घटना का वर्णन डायरी लेखन के रूप में करो जिससे आपको यह लगा हो कि आपके माता पिता आपसे बहुत प्रेम करते हैं |
2. 'पद-परिचय' की पूरी तालिका चार्ट पर बनाइए |
3. किन्ही दस वाक्यों का वाच्य परिवर्तन कीजिये |
4. कोई दस वाक्य लिखो और प्रत्येक वाक्या में दो-दो पदों का पद परिचय दो |
5. प्रदूषण को रोकने में हम क्या भूमिका निभा सकते हैं ? अपने विचार लिखिए |

## Mathematics

### Section A

- Q1** The LCM and HCF of two numbers are 360 and 9 respectively. If one of the numbers is 45 Find the other number.
- Q2** Prove that  $\sqrt{3} + \sqrt{5}$  is an irrational number .
- Q3** If the sum of the zeros of the quadratic polynomial  $f(x) = kx^2 + 2x + 3k$  is equal to their product find the value of k.
- Q4** If the zeros of the polynomial  $x^2 + px + q$  are double in value to the zeros of  $2x^2 - 5x - 3$  find the values of p and q.
- Q5** For what values of p and q will the following pair of linear equations have infinitely many solutions  $4x + 5y = 2$  and  $(2p + 7q)x + (p + 8q)y = 2q - p + 1$ .
- Q6** Solve  $ax + by = a - b$  ,  $bx - ay = a + b$  find x and y
- Q7** Students of a class are made to stand in rows. If one student is extra in a row, there would be 2 rows less . If one student is less in a row there would be 3 rows more find the number of students in the class .
- Q8** Point A(-1, y) and B(5, 7) lie on the circle with centre O (2, -3y) find the value of y Hence find the radius of circle .
- Q9** Determine the ratio in which the line  $y - x + 2 = 0$  divides the line segment joining the points (3, -1) and (8, 9) .
- Q10** If the points A(6, 1) , B(8, 2), C(9, 4) and D(k, p) are the vertices of a parallelogram taken in order find the values of k and p.
- Q11** Two poles of height a metres and b metres are p metres apart prove that the height of the point of intersection of the lines joining the top of each pole to the foot of the opposite pole is given by  $\frac{ab}{a+b}$  metres .
- Q12** ABC is a right triangle right angle at B and D is the foot of the perpendicular drawn from B on AC if DM perpendicular BC and DN perpendicular AB prove that  
1)  $DM^2 = DN \times MC$  2)  $DN^2 = DM \times AN$
- Q13** State and prove BPT and its converse .





- Q24** Make a chart of table given in chapter 3 related to condition of parallel lines, intersecting lines and coincident lines.
- Q25** Write atleast one page on notebook related to topic why mathematics is necessary in our daily life.

## Science

### ➤ Physics

1. Prepare the tabular display of all the cases of image formation by concave and convex mirror along with proper neat ray diagrams of the same.
2. Prepare the tabular display of all the cases of image formation by convex and concave lens along with neat and clear ray diagram of all the cases.
3. With proper ray diagram derive the relation between focal length and radius of curvature. Hence establish the mirror formulae.
4. With proper ray diagram establish the lens equation for convex and concave lens.
5. Make a systematic chart of all the important formulas and sign convention for mirrors and lens.
6. Make a list of at least ten uses of concave and convex mirrors in our daily life around us.
7. Make a small investigation of any one important aspect of light in your life near or around you and record your observations in copy. Your investigation will be discussed in class
8. Read chapter Light and prepare 20 Questions which are frequently asked in board examination.
9. Make a model of any topic of physics.

### ➤ Chemistry

- 1 Learn and observe the complete process of rusting and corrosion write its chemical reaction involved and methods of prevention also.
- 2 Solve and learn all types of chemical reaction with two reaction of each.
- 3 Make a chart on the activity series with the definition of this
- 4 Learn the electron dot structure from NCERT and reference book also.
- 5 Observe the smell of onion peel on putting of acid and base present in your surrounding.
- 6 Revise the whole syllabus and do your 25-15 work as usual.
- 7 Complete the reaction
  - A. What happens when sodium carbonate react with hydrochloric acid
  - B. Hydrochloric acid reacts with nitric acid
  - C. react with sodium hydroxide
  - D. Aluminum oxide react with sodium hydroxide balance these reaction also .

### ➤ Biology

1. Make a project on kidney dialysis including what is meant by dialysis what type of patients are put on dialysis
2. Explain the principle of dialysis with the help of a labelled diagram
3. Draw 3D chart /working model on anyone of the following topics:
  - a. Pumping of heart
  - b. Digestive system
  - c. Respiratory system
  - d. Excretory system
  - e. Human brain
  - f. Nervous system
4. Give answer for the following questions:
  - a. Describe the mechanism of urine formation in human excretory system draw a label

- diagram to illustrate your answer
    - b. Describe the working of human blood circulatory system with the help of suitable diagram which show the steps involved in it.
    - c. Why do the walls of trachea not collapse when there is less air in it.

## Social Science

- Q 1. Read all the chapters already discussed and write 15 one mark question from each chapter.
- Q 2. Write and learn 10 questions from each chapter of 50 – 60 words.
- Q 3. Write and learn 5 questions from each chapter of 100- 120 words .
- Q 4. Make a Project on any one of the following topics.
  - 1. Consumer Awareness
  - 2. Sustainable Development
  - 3. Any Social Evils
- Q 5. Fill all the maps of Geography and History
  - 1. Place where Jallianwalla Bagh Massacre took place.
  - 2. Place where Salt March concluded
  - 3. Place where Indigo Planters movement organized by Gandhiji.
  - 4. Place where Mill workers movement organized
  - 5. Place where Congress Session of Sept. 1920 held.
  - 6. Place where Congress Session of Dec. 1920 held.
  - 7. Place where Congress Session of 1927 held.
  - 8. Place where Congress Session of 1929 held.
- Q 6. Make any one working model.
- Q7. Do 2 case study passage from each chapter.