

# English

### 11 Jun to 17 June

- Q1- Why did lencho write a letter to God? Who received the letter and what did he do?
- Q2- Write the character sketch of lencho.
- Q3- Do you think tricky was happy to go home? What do you think will happen now?
- Q4- Give a brief character sketch of Anil on the basis of your reading of The thief story.
- Q5- Write the summary of the poem 'A tiger in the zoo'.
- Q6- Write an article on the topic 'child labour'.
- Q7- You are Rajan living at 23 new friends Nagar Delhi. Write a letter to the postmaster of your locality complaining that you have not received the gift parcel send to you buy your brother from USA.
- Q8- Complete the story in 150 to 200 words. Givee a suitable title to your story It was 11:45 p.m. I was alone at home suddenly I hear a knock on the door.....

### 18 Jun to 24 Jun

- Q1- Describe the methods used by the seagull family to help the young seagull overcome his fear and fly.
- Q2- What does Nelson Mandela say about courage love and hate ? How did Mandela hunger for freedom change his life?
- Q3- Write an article on the topic health hazards caused by junk food.
- Q4- You are Tarun / Tanisha ling at 120 Sohan Ganj sabji mandi Delhi. Write a letter to the editor of the Hindustan Times drawing his attention to the poor voltage problem in your area.
- Q5- Complete the story in 150 to 200 words. Give a suitable title to your story... We were playing cricket in a park. Suddenly I saw an old man just collapsing on the pavement. we all rushed to him.....
- Q6- Write a character sketch of the secret agent Ausable.
- Q7- Horace Danby clever but the lady in red was cleverer. Do you agree with this statement? Justify your answer.
- Q8- Describe the various ways to recognise Asian lions Bengal tigers and Leopards.

## 25Jun to 30Jun

- Q1- Write the summary of the poem The Ball Poem.
- Q2- Write an article on the topic Importance of computer for students.
- Q3- Anne had loving parents and number of friends. Even then she thought that she was alone why?
- Q4- How did Peggy and Maddie react after Miss Mason read out Jan Petronski's letter to the class.
- Q5- Complete the story beginning with the given lines. An old man had two daughters. He loved both of them. Once he asked them......
- Q6- You are Alok / Ankita living at 16 Mansarovar garden in Delhi. Write a letter to the rising incidents of chain snatching and pickpocketing in your area..
- Q7- Griffin was rather a lawless person. Comment.
- Q8- How did Ebrights mother encourage him to become a scientist? Which book proud to be a turning point in Ebright's life?

# Hindi

# नोट:- 12 जून से 20 जून तक का कार्य |

- 1. बच्चे (आप) अपने माता-पिता से अपना प्रेम कैसे प्रकट करते हैं कोई 10 बातें लिखिए |
- 2. ग्रीष्मकालीन अवकाश में व्यतीत किए दिनों में से किन्ही पांच दिनों की दिनचर्या डायरी लेखन के रूप में लिखिए |
- 3. आत्मकथ्य कविता का सार अपने शब्दों में लिखिए |

- 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 |

- 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 वाकया में दो-दो पदो 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 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
  - I) DM<sup>2</sup>=DN×MC 2) DN<sup>2</sup>= DM×AN
- **Q13** State and prove BPT and its converse .

- **Q14** If cosec A + cot A =p then prove that  $\cos A = p^2-1/p^2+1$ .
- **Q15** If sec A = x + 1/4x prove that sec  $A + \tan A = 2x$ .
- **Q16** The angle of elevation of a jet plane from a point A on the ground is 60 ° After a flight of 30 seconds the angle of elevation changes to 30° if the jet plane is flying at a constant height of  $3600\sqrt{3}$  m find the speed of jet plane.
- **Q17** From the top of 7m high building the angle of elevation of the top of cable tower is 60° and angle of depression of it's foot is 45° determine the height of tower.
- **Q18** The angle of elevation of a cloud from a point 60 m above a lake is 30 ° and the angle of depression of the reflection of cloud in the lake is 60 ° find the height of the cloud.
- Q19 If the HCF of 657 and 963 is express in the form 657m+963 (-15) find m.
- **Q20** Find x and y by substitution 2x+3y=11/3 and 5x-7y=31/3.

#### Section B case study questions

**Q21** From the given graph give answer to following questions.



- 1) Find the degree of polynomial by considering graph.
- 2) Find the equation of polynomial represented by given graph.
- 3) Find the zeros of polynomial.
- **Q22** PQRS is a trapezium in given figure give answer to following questions.
  - 1) Name the pair of similar triangles in given figure.
  - 2) Write similarity rule applied in this case.
  - 3) Find the value of x.



#### Section C



- **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.