Holiday Homework
Class - X
English

FIRST FLIGHT:

Q1) Recreate the story 'A Letter to God' in your own words keeping yourself at the place of Lencho. You can take the liberty to
mould the story according to you rather copying from the same text. (150 words)

Q2) What is an autobiography? Study the autobiography of Mr Nelson Mandela and write the prominent features of his
autobiography and write the lesson we can learn from it (100 words).

Q3) ENRICHMENT ACTIVITY (SPEAKING SKILL): Students are guided to prepare any one topic from the following for speaking skill. (Time limit 2 to 3 minutes)

a) Importance of sports and games
b) Generation gap
c) Modern fashion
d) Inside an examination hall
e) Adversity brings out the best in man
f) Importance of Affirmation in life

Q4)Read the news papers daily and write only one news article under the title National, International, sports business and express your views on it.

Social science

Q1: Learn and write the ethnic composition of Belgium and sri lanka.
Q2: Write a note on unification of germany and unification of italy.
Q3: Learn and write the positive and negative impacts of multi river project.
Q4- What do you mean by federalism & write key features also?
Q5 Map skills

History

Mark the following points on the map Mark the following points on map

A place of jalliawala massacre.
Place where gandhiji break the salt law
Satyagraha of kheda district
Place where khilafat committee formed
Congress, session in December 1920 where non corporation program was adopted.

GEOGRAPHY

Draw soil profile
A map of major soil types in india.
Outline map of India -
A- State & their capital
B- Union territories & Neighbouring countries of india
C-Major dams and rivers.

Hindi

Q1. अपनी पाठ्य पुस्तक में आए सभी कवि और उनकी कविताओं के नाम याद करें।

Q2. पटाखों से होने वाले प्रदूषण के प्रति ध्यान आकर्षित करते हुए अपने मित्र को पत्र लिखिए।

Q3.पाठ तीन आत्मकथ्य, लखनवी अंदाज तथा साना साना हाथ जोड़ी के प्रश्न उत्तर याद कीजिए।

Q4.आपके भाई को राष्ट्रपति द्वारा वीर बालक सम्मान से पुरस्कार किया गया है उसे बधाई देने हेतु संदेश लिखिए।

Q5 .'साहित्य का महत्व' विषय पर संकेत बिंदु की सहायता सेअनुच्छेद लिखिए ।

संकेत बिंदु

.साहित्य का सामर्थ्य

.देश की वास्तविक स्थिति का सजीव चित्रण

.साहित्यकारों द्वारा संस्कृत वह सभ्यता को बचाने में योगदान

Science
Chemistry

Q1. Why is Plaster of Paris stored in a moisture proof container?
Q2. What do you mean by neutralization reaction? Give two examples.
Q3. Mention two uses of baking soda and washing soda.
Q4. Why does a milkman add a small amount of baking soda to fresh milk to shift the pH of fresh milk from 6 to slightly alkaline?
Q5. Give an example of a decomposition reaction. Describe any activity to illustrate such a reaction by heating.
Q6. Why is respiration considered as exothermic process?
Q7. Balance the following chemical equation.

$$Fe(s) + H_2O(g) = Fe_3O_4 + H_2(g)$$
$$MnO_2 + HCL = MnCl_2 + Cl_2 + H_2O$$
$$HNO_3 + Ca(OH)_2 = Ca(NO_3)_2 + H_2O$$

Biology

Q.1: Why do veins have a thin wall than arteries ?
Q2: What will happen if platelets are absent in blood ?
Q3: Why transpiration is important for plants ?
Q4 : What is the advantage of having four chambered heart?
Q4: Describe the flow of blood through a human heart ?
Q5: Define:
   - Blood pressure
   - Heart attack
   - Heart arrest
   - Cardiac output
Q6 : explain the physiology of urine formation ?
Q7: PROJECT WORK
Roll no.1 to 15 : Model showing structure of heart
Roll no.16 to 30 : Table showing difference b/w tropic and nastic movement
Roll no. 31 to ---: A table showing role of various plant hormones on A3 sheet

प्रकाशमय कल के लिए

Q8 : Draw diagrams
- Excretory system
- Double circulation
- Structure of nephron

Physics

Q-1 explain hypermetropia with diagram.?

Q-2 explain Myopia with diagram.?

Q-3 explain twinkling of stars.?

Q-4   explain Dispersion with Diagram.?

Q-5 explain how 2 prism be arranged to give white light again.?

Q-6 explain Blue colour of sky ?

Q-7 explain red colour of sky at Sun rise and sunset.?

Q-8 Draw Ray diagram for convex lens to be used as Microscope.?

Mathematics

Q1. The 4th term of an A.P. is zero. Prove that the 25th term of the A.P. is three times its 11th term.

Q2. In a certain A.P. 32th term is twice the 12th term. Prove that 70th term is twice the 31st term.

Q3. The sum of first six terms of an arithmetic progression is 42. The ratio of its 10th term to its 30th term is 1 : 3. Calculate the first and the thirteenth term of the A.P.

Q4. Find the sum of the first 25 terms of an A.P. whose nth term is given by $a_n = 7 - 3n$.

Q5. The 12th term of an AP is -13 and the sum of its first four terms is 24. Find the sum of its first 10 terms.

Q6. From an airport, two aeroplanes start at the same time. If speed of first aeroplane due North is 500 km/h and that of other due East is 650 km/h then find the distance between the two aeroplanes after two hours.

Q7. ABCD is a trapezium in which AB ∥ DC and P and Q are points on AD and BC, respectively such that PQ ∥ DC. If PD = 18 cm, BQ = 35 cm and QC = 15 cm, find AD.

Q8. Prove that the area of the equilateral triangle described on the side of an isosceles right angled triangle is half the area of the equilateral triangle described on its hypotenuse.

Q9. Find the coordinates of the point on y-axis which is nearest to the point (- 2, 5). (1)10. What is the distance between the points A(c,0) and B(0, - c)?

Q10. What is the distance between the points A(c,0) and B(0, - c)?

Q11. Use distance formula to show that the points A (- 2,3), B (1, 2) and C (7,0) are collinear.

Q12. If the mid-point of the line joining (3,4) and (k, 7) is (x, y) and $2x + 2y + 1 = 0$ find the value of k.

Q13. Show that the mid-point of the line segment joining the points (5, 7) and (3, 9) is also the mid-point of the line segment joining the points (8, 6) and (0, 10).

Q14. If (5,2), (- 3,4) and (x, y) are collinear, show that x + 4y - 13 = 0.

Q15. If the point C(-1, 2) divides the line segment AB in the ratio 3 : 4, where the coordinates of A are (2, 5), find the coordinates of B.

Q16. The three vertices of a parallelogram ABCD taken in order are A (-1, 0), B(3, 1) and C(2, 2). Find the height of a parallelogram with AD as its base.

Q17. Find the ratio in which the line segment joining the points A(3, - 3) and B(- 2,7) is divided by the x-axis. Also, find the coordinates of the point of division.

Q18. Find the point on the x-axis which is equidistant from (2,-5) and (-2,9)

Q19. The points A (x1
,y1
), B (x2
, y2
) and C (x3
, y3
) are the vertices of ABC.
i. The median from A meets BC at D. Find the coordinates of the point D.
ii. Find the coordinates of the point P on AD such that AP : PD = 2:1.
iii. Find the points of coordinates Q and R on medians BE and CP respectively such that BQ : QE = 2 :1 and CR : RP = 2 :1.
iv. What are the coordinates of the centroid of the triangle ABC?

Q20. Find the coordinates of the points Q on the x–axis which lies on the perpendicular bisector of the line segment joining the points A(–5, –2) and B(4, –2). Name the type of triangle formed by the points Q, A and B.