



SACRED HEART SCHOOL

Jhumri Telaiya, Koderma

ASSIGNMENTS FOR SUMMER VACATION (2024-25)

CLASS - X

SUBJECT-HINDI

कैटन नेताजी की मूर्ति पर चश्मा बदलकर अपने देशभक्ति का परिचय देता था। देश के 10 देशभक्तों/ क्रांतिकारियों की सूची तैयार करें। किन्हीं एक के जीवन पर 200 शब्दों में अनुच्छेद लिखें।

SUBJECT- SANSKRIT

दशम वर्गस्य गृहकार्यः

- 1.) द्वितीय पाठः 'बुद्धिबलवती सदा' कथाम पंचाशत अधिको शतम शब्देषु स्व-स्मरणेन लिखत ।
- 2.) क्त, टाप, क्तवत श्च प्रत्ययस्य पंचदश उदाहरणाः लिखत ।
- 3.) स्वस्मरणेन 'अस्माकम विद्यालये' अष्टवाक्येषु एकम् अनुच्छेदम् लिखत ।

SUBJECT- ENGLISH

1. You have just read two of the poems of Robert Frost. Make a detailed project on this American poet highlighting the following topics –

- a. Biography b. Work c. Awards and recognition d. Legacy and Cultural Influence

2. Read any two stories (apart from stories in your text) and write a critical appreciation of the same in about 250 – 300 words.

3. Watch the movie 3 Idiots and write a critical analysis of the movie in 300-350 words

(Note: Do the given homework in A4 size ruled sheet and submit in a stick file)

SUBJECT- SOCIAL SCIENCE

Topic : Social issues

ROLL NO. 1-10 Poverty, ROLL NO. 11-20 Caste Discrimination, ROLL NO. 21-30 Gender Inequality

ROLL NO. 31-40 Lack of access to education ,

ROLL NO. 41-50 Healthcare, ROLL NO. 51-60 Environment degradation ,ROLL NO. 61-63 Rural - Urban divide in India

Topics are divided into roll no. wise. Though each student will prepare their own project work individually. Which should include:

1. Index
2. Acknowledgment
3. Introduction
4. About specific topic offered
5. Conclusion

* Use A4 size paper (one side ruled) * Design the cover page, highlighting your topic clearly

* Include your name class section roll no. on the cover page * Project should not be less than 10 pages

SUBJECT- MATHEMATICS

1. Write unit digit of $2(5^n + 6^n)$.
2. Find the greatest number of 6-digits exactly divisible by 24, 15 and 36.
3. The traffic light at three different roads crossing, changes after every 48 sec, 72 sec and 108 sec. If they change simultaneously at 7:00am, at what time will they change together next.
4. Prove $\sqrt{31}$ is irrational number.
5. Draw the graph of $-4x^2 + 4x - 1$ (on graph paper)
6. If α, β are the zeroes of polynomial $f(x) = 2x^2 + 5x + k$ satisfying the relation $\alpha^2 + \beta^2 + \alpha\beta = \frac{21}{4}$ then find the value of k .
7. Find a quadratic polynomial whose zeros are reciprocal of the zeros of the polynomial
$$f(x) = ax^2 + bx + c, a \neq 0, c \neq 0$$
8. Determine graphically, the vertices of the triangle formed by lines $-y = x, 3y = x, x + y = 8$
9. Write another equation forming pair of linear equation with $\frac{2}{3}x + \frac{4}{5}y + 5 = 0$ such that they have
(a) Unique solution
(b) Infinite solution
(c) No solution
10. Solve:

(a) Find the zeros of $3x^2 + \sqrt[2]{3}x + 1$

(b) Write a quadratic polynomial whose zeroes are $2 + \sqrt{3}$ and $2 - \sqrt{3}$

CLASS -X SUBJECT- BIOLOGY

- Two green plants are kept separately in oxygen free containers, one in dark and the other in continuous light. Which one will last longer? Give reasons.
- In each of the following situations what happens to the rate of photosynthesis?
a) Cloudy days b) No rainfall in the area c) Good manuring in the area d) Stomata gets blocked due to dust.
- Complete the following flow chart as given instructions
Gastric glands in the wall ----- of stomach ----- |
Secretions a) b) c)
Functions d) e) f)
- Design an activity to show that chlorophyll is essential for Photosynthesis.
- Leaves of a healthy potted plant were coated with vaseline. Will the plant remain healthy for long? Give reasons for your answer

SUBJECT-CHEMISTRY

Topic- Observe 10 scientific phenomenons takes place in our everyday life. Submit your observation in stick file.

SUBJECT- PHYSICS

- 1) Draw Ray diagram for formation of images at different positions of the object for concave and convex mirror. Also write nature of images and size of images in pink colour of chart paper.
- 2) Draw Ray diagram of Refraction of light, when it goes rarer to denser medium.
Draw all ray diagrams in pink colour chart paper.

SUBJECT- I.T.

On 8th Nov 2016, the Indian government has announced that the currencies of rupees 1000 and 500 is not acceptable over the Pan India. Due to sudden announcement of demonetisation lots of people had faced several problems even they had money but couldn't buy necessary goods. After some days of demonetisation people were standing in front of bank, ATM & post office since morning to evening to exchange the currencies. During that period lots of people lost their lives. The reason behind the demonetisation to control the fake currencies as well as corruption but now a days fake currencies are active. But due to demonetisation transactions are held with digital payments like UPI, PHONEPAY, Paytm etc. Since demonetisation, digital payments is growing with fastest payments system.

1. What do you mean by demonetisation?
2. Do you think after demonetisation fake currency and corruption are stopped?
3. Do you think demonetisation was right decision to control the corruption and fake currency? If not, what would be the alternate option?
4. What is digital payment system? How it works?
5. Analyse and research how many people lost their lives during the demonetisation?