

SGJ DAV SEN. SEC. PUBLIC SCHOOL, HARIPURA

Class – 10th

Date – 04.01.2025

Instructions: Dear children, The work which is being sent to you, it must be done in a fair notebook and in beautiful handwriting. When the school will reopen this home work will be checked. This work is given for revision purpose.

Sub – English

You are Rahul/Rekha .There are frequent power cuts in your locality.You strongly feel that it is time to shift to solar power.Write an article in about 120-150 words on the topic ‘Solar Power an Apt Global Solution for Energy Crisis’ .Support your ideas with the cues given below:

renewable energy

Reduce energy bill

completely clean-no air or water pollution, no greenhouse gas effects, carbon free:no emissions,

low maintenance cost

Sub- Hindi

प्रश्न 1. दिए गए संकेत बिंदुओं के आधार पर 120 से 150अनुच्छेद लिखो

मातृभाषा के प्रति अभिरुचि

- * मातृभाषा से तात्पर्य
- * घटती रुचि के कारण
- * रुचि कैसे बढ़ाई जाए
- * उपसंहार / निष्कर्ष

Sub-Punjabi

ਪ੍ਰਸ਼ਨ 1- ਤੁਰਨ ਨਾਲ ਸਾਨੂੰ ਕਿਹੜੇ- ਕਿਹੜੇ ਨੈਤਿਕ ਤੇ ਸਦਾਚਾਰਿਕ ਗੁਣਾਂ ਦੀ ਪ੍ਰਾਪਤੀ ਹੁੰਦੀ ਹੈ?

ਪ੍ਰਸ਼ਨ 2- ਭਾਈ ਗੁਰਦਾਸ ਜੀ ਨੇ ‘ਸਤਿਗੁਰੂ ਨਾਨਕ ਪ੍ਰਗਟਿਆ’ ਪਉੜੀ ਵਿੱਚ ਸ੍ਰੀ ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ ਦੇ ਅਵਤਾਰ ਧਾਰਨ ਨਾਲ ਸਮਾਜ ਵਿੱਚ ਕਿਹੜੇ ਪਰਿਵਰਤਨ ਦਾ ਵਰਣਨ ਕੀਤਾ ਹੈ?

ਪ੍ਰਸ਼ਨ 3- ਪੈਦਲ ਤੁਰਨਾ ਮਨੁੱਖੀ ਸਰੀਰ ਲਈ ਕਿਵੇਂ ਲਾਭਦਾਇਕ ਹੈ?

Sub- Math

Q1. An army contingent of 616 members is to march behind an army band of 32 members in a parade. The two groups are to march in the same number of columns. What is the maximum number of columns in which they can march?

Q2.Explain why $7 * 11 * 13 + 13$ and $7 * 6 * 5 * 4 * 3 * 2 * 1 + 5$ are composite numbers.

Q3.There is a circular path around a sports field. Sonia takes 18 minutes to drive one round of the field, while Ravi takes 12 minutes for the same. Suppose they both start at the same point and at the same time, and go in the same direction. After how many minutes will they meet again at the starting point?

Q4.Prove that $\sqrt{5}$ is irrational.

Q5. The HCF of two numbers is 23 and their LCM is 1449. If one of the numbers is 161, find the other.

Q6.Prove that the difference and quotient of $(3 + 2\sqrt{3})$ and $(3 - 2\sqrt{3})$ are irrational.

Q7.Prove that the following are irrationals.

$1/(\sqrt{2})$

$7\sqrt{5}$

$6 + \sqrt{2}$

Sub - Science

Chapter- Chemical equation and reaction

Students have to solve following questions on their note books and submit it to teacher when required .

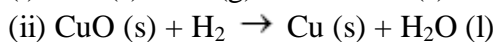
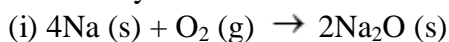
1. You are given with

(a) Iron Nails

- (b) CuSO₄ solution
- (c) BaCl₂
- (d) Cu powder
- (e) Ferrous sulphate crystal
- (f) Quick lime.

Make five reactions that can take place from these materials.

2. Identify the substances that are oxidized and the substances that are reduced in the following reactions.



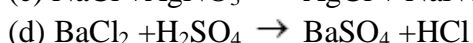
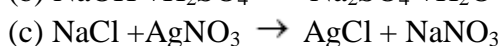
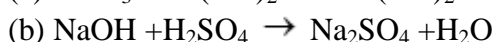
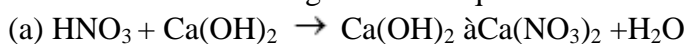
3. Translate the following statements into chemical equations and then balance them.

(a) Hydrogen gas combines with nitrogen to form ammonia.

(b) Hydrogen sulphide gas burns in air to give water and Sulphur dioxide.

(c) Barium chloride reacts with aluminum sulphate to give aluminum chloride and precipitate of barium sulphate

4. Balance the following chemical equations:



5. Write the balanced chemical equations for the following reactions.

(a) Calcium hydroxide + Carbon dioxide \rightarrow Calcium carbonate + Water

(b) Zinc + Silver nitrate \rightarrow Zinc nitrate + Silver

(c) Aluminum + Copper chloride \rightarrow Aluminum chloride + Copper

(d) Barium chloride + Potassium sulphate \rightarrow Barium sulphate + potassium chloride

6. Write the balanced chemical equation for the following and identify the type of reaction in each case.

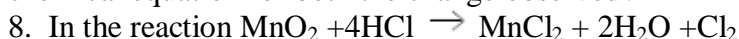
(a) Potassium bromide (s) + Barium iodide (aq) \rightarrow Potassium iodide (aq) + Barium bromide(s)

(b) Zinc carbonate (s) \rightarrow Zinc oxide (s) + Carbon dioxide (g)

(c) Hydrogen (g) + Chlorine (g) \rightarrow Hydrogen chloride (g)

(d) Magnesium (s) + Hydrochloric acid (aq) \rightarrow Magnesium chloride (aq) + Hydrogen (g)

7. A student dropped few pieces of marble in dilute hydrochloric acid contained in a test tube. The evolved gas was then passed through lime water. What change would be observed in lime water? Write balanced chemical equation for both the change observed?



(a) Name the substance oxidised.

(b) Name the oxidising agent.

(c) Name the reducing agent and the substance reduced.

Sub- Social science

1. What is meant by development? Tell us about the four indicators of development.

2. What is the importance of Human development index?

3. 'Money cannot buy all the goods and services that one needs to live well.' Explain the statement in five points.

4. Distinguish between Human Development and Economic Development.