

Vishwa Bharati Higher Secondary School
Udheywalla Jammu
Holidays Homework

Class :- 10th

PHYSICS

CHAPTER:-5 (Sources of Energy)

Note: - A separate copy should be maintained for holiday homework.

- Q1 What is Energy? What are its units?
Q2 What are the sources of Energy?
Q3 What are renewable and non-renewable sources of Energy?
Q4 Why we are looking for alternate sources of energy?
Q5 What are fossil fuels?
Q6 How is coal formed? What are its various types?
Q7 Write a short note on LPG?
Q8 What is a hydroelectric power plant? What is the principle of generation of Hydroelectricity?
Q9 What is Biogas? What are its advantages?
Q10 What is wind energy? How much wind power potential has India?
Q11 What is a solar cell?
Q12 Describe solar cell cooker (Box type)
Q13 Define the following:-
(1) Tidal energy (2) Wave Energy (3) Ocean thermal Energy
(4) Geothermal energy (5) Nuclear energy
Q14 What is nuclear energy? What is its S.I unit?
Q15 Describe Nuclear fission and nuclear fusion process in details? Give examples
Q16 Draw neat and labeled diagram of a biogas plant?
NOTE: Each student has to prepare two charts, well labeled and well decorated. The charts to be prepared are:
1. A solar cell 2.A Wind mill 3. A Hydroelectric Power plant
4. A box type solar cooker.

BIOLOGY

Learn unit XI (Life processes)

- Q1. Read Lesson no XII (control and coordination) thoroughly and do the answers of all textual questions in separate note-book.
Q2. Prepare a chart/Model of Human respiratory system/excretory system

MATHS

(A) Revise the following topics

1. Real Numbers.
2. Polynomials.
3. Similar Triangles.
4. Linear Equations

(B) Collect the material and information to prepare a model on any one of the following topics

1. Theorem on similar triangle
2. Geometry in daily life.

CHEMISTRY

Note: - A separate copy should be maintained for holiday homework

Q1 why should magnesium ribbon be cleaned before burning in air?

Q2 Write the balanced equation for the following chemical reaction

- (a) Hydrogen+Chlorine:-Hydrogen chloride
- (b) Barium chloride +Aluminum sulphate
- (c) Sodium+Water:- Sodium hydroxide+Hydrogen

Q3 Write a balanced chemical equation with state symbols for the following reaction:-

- (a) Solutions of barium chloride and sodium sulphate in water react to give insoluble barium sulphate and the solution of sodium chloride.
- (b) Sodium hydroxide solution in water reacts with hydrochloric acid solution to produce sodium chloride solution and water.

Q4 A solution of a substance 'X' is used for white washing.

- (i) Name the substance 'X' and write its formula.
- (ii) Write the reaction of the substance 'X' named above with water.

Q5 Why the amount of gas is collected in one of the test tubes in Activity 6.7 is double of the amount collected in the other? Name this gas.

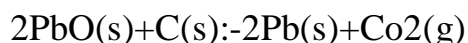
Q6 Why does the colour of copper sulphate solution change when an iron nail is dipped in it?

Q7 Give an example of a double displacement reaction other than the one given in Activity 6.10.

Q8 Identify the substance that are oxidized and the substances that are reduced in the following reactions:-

- (i) $4\text{Na(s)} + \text{O}_2(\text{g}) \rightarrow 2\text{Na}_2\text{O(s)}$
- (ii) $\text{CuO(s)} + \text{H}_2(\text{g}) \rightarrow \text{Cu(s)} + \text{H}_2\text{O(l)}$

Q9 Which of the statements about the reaction below are incorrect



- (a) Lead is getting reduced.
 - (b) Carbon dioxide is getting oxidized.
 - (c) Carbon is getting oxidized.
 - (d) Lead oxide is getting reduced.
- (i)(a) and (b)

- (ii) (a) and (c)
- (iii) (a), (b) and (c)
- (iv) All

Q10 Do all the questions of Exercise Chapter-6

Q11 Learn and write Lesson -8

ENGLISH

Q1. Revise the following Chapters:-

- | | | |
|-------------|---|-------------------------------|
| Prose | : | The Invisible Man |
| | | An excellent Father |
| | | From the diary of young girls |
| Poetry | : | Prayer |
| | : | Miracles |
| | : | When you are old |
| Short Story | : | The Necklace |
| | : | Bholi |

Grammar

Q1. Revise the topics given below:-

- a) Notice Writing
- b) Message Writing
- c) Letter Writing

NOTE:- Prepare all these topics for periodic assessment

SOCIAL STUDIES

History:-

1. Reading of lesson No 1,2 and 3.
2. Prepare short type, Multiple choice and textual questions Answers of lesson No Three “Rise of Global World”.
3. Learn all textual Question – Answers and short type Questions.

Civics:-

1. Reading of lesson No 1, 2 and 3
2. Prepare short type, one word or one sentence question- answers of all lessons.
3. Prepare “ Democracy and Diversity” lesson
4. Prepare all textual question – Answers and learn all textual question-answers.

Project:-

1. Find out more about nationalist symbols in Indian and outside Europe. Collect examples of pictures, posters or music that are symbols of nationalism

(R.No 1 - 12)

2. List all the different social groups which joined the Non cooperation movement of 1921. Write about their hopes, struggles to show why they joined the movement.

(R.No 13 - 24)

3. Write an article on "Power Sharing" at the school and at community level.

HINDI

1. निबंध :-
1. विद्यार्थी और अनुशास
 2. किसी पर्वतीय स्थल की यात्रा
 3. विज्ञान वरदान या अभिशाप
 4. कंप्यूटर की उपयोगिता
 5. कोई राष्ट्रीय पर्व
 6. पर्यावरण प्रदूषण: एक जम्भरि-बुनौती
 7. भ्रष्टाचार का प्रकोप

- पत्र :-
1. मोबइल चोरी होने की सूचना देते हुए पुलिस अधिकारी को एक शिकायती पत्र लिखिए।
 2. अपने प्रिय मित्र को जन्मदिवस पर शुभ वाचनाएँ देते हुए अभिनंदन पत्र लिखिए।
 3. अपने पिताजी को घर की कुशलता के विषय में एक पत्र लिखिए।
 4. शुल्क माफ करने के लिए प्रधानाचार्या को प्रार्थना पत्र लिखिए।
 5. मुहल्ले की सफाई के लिए नगरपालिका को पत्र लिखिए।
 6. छात्रवृत्ति प्रदान करने के लिए प्रधानाचार्या को आवेदन पत्र।
 7. कुसंगति से बचने के लिए छोटे भाई को पत्र

3. आदिकाल और भवितकाल कंठस्थ कीजिए।
व्याकरण: संधि, समास, छंद, उपसर्ग-प्रत्यय लिखिए।
4. पाठ्य-पुस्तक से जितने भी पाठ पढ़ाए जाएं उसे कंठस्थ करो।