



PON VIDYASHRAM GROUP OF CBSE SCHOOLS
ANNUAL EXAMINATION (2017-18)
SCIENCE WORKSHEET

Name: _____

Date: _____

Roll No: _____

Std: VIII Sec: _____

PHYSICS

SOME NATURAL PHENOMENA

I. Answer the following:

1. How does a charged scale attract bits of paper?
2. How does a gold leaf electroscope work to test and measure a small charge developed on a body?
3. How does a seismograph work?
4. Why we should stay away from all trees during thunderstorms?
5. How you should be prepared when you are at outdoors during tremors?
6. How tremors are responsible for landslides and avalanches?

SOUND

I. Answer the following:

1. How does sound travel from one place to another?
2. How does amplitude affect the loudness of vibration?
3. How the inner ear passes the vibration to the middle ear?
4. Write the difference between ultrasonic and infrasonic.
5. How can you prevent and control noise pollution?
6. How does the vocal cord work in producing sound?
7. The frequency of a given sound is 3.5Hz. How many vibrations does it complete in one second?

LIGHT

I. Answer the following:

1. Define reflection of light.
2. Define the laws of reflection.
3. A person is standing 5m away from a plane mirror. What will be the distance between him and the image?
4. Which is the most popular resource for visually challenged person to read and write?
5. Describe the functions of a. Cornea b. pupil c. ciliary muscles d. iris
6. What are the precautions to be taken to protect the eyes?

CHEMISTRY

I. Answer in short:

1. Why does the outer part of a candle flame appear blue in colour?
2. Why saponin is used in fire extinguisher?
3. In which unit calorific value is usually expressed?
4. Identify acidic and basic oxide from the following list sodium oxide, carbon dioxide, sulphur dioxide, calcium hydroxide.
5. Write the reaction between zinc and hydrochloric acid.
6. What do you mean by electro refining?
7. Why pure water do not conduct electricity? give reason

8. Why should chemical equations be balanced?
9. How are brass objects protected from corrosion?
10. Mention any two changes that occur during chemical reaction.

II. Answer in brief

1. In what way is carbon monoxide gas harmful?
2. Why is LPg considered a better fuel than wood?
3. How are fuels classified ?give two examples for each.
4. Complete the equation
 - a) $\text{Al} + \text{HCl} \longrightarrow$
 - b) $\text{Co}_2 + \text{H}_2\text{O} \longrightarrow$
5. What are the conditions necessary for rusting of iron .
6. Write the full form of LED? What is the purpose of LED?
7. Is it safe for the electrician to carry out electrical repairs outdoors during heavy downpour? Explain?
8. Write the balance equation for the following chemical reactions
 - a) Hydrogen + chlorine \longrightarrow Hydrogen chloride
 - b) Sodium + water \longrightarrow sodium hydroxide + hydrogen

III. Answer in detail

1. If you wish to purchase an ideal fuel, which characteristics will you keep in mind?
2. Describe the changes that may occur when a piece of iron is placed in copper sulphate solution?
3. What is electroplating? What are the essential steps involved in the electroplating of an article? Draw a labeled diagram to explain the process?

BIOLOGY

CELL: STRUCTURE AND FUNCTION

I. Answer the following:

1. Why cannot the cell survive without the nucleus?
2. What is GMO? Explain its role.
3. White Blood cells are irregular in shape. Justify.
4. Few character is transmitted from parents to offspring. Which organelle does this process? Why?
5. Why do muscle cells contain a lot of Mitochondria?

REPRODUCTION IN ANIMALS

I. Answer the following:

1. What happens if egg is not fertilized in a female human body?
2. How does placenta help in the development of an embryo?
3. How oviparous animals are different from viviparous animals?
4. Why is umbilical cord blood preserved?
5. What are the arguments against human cloning?

ADOLESCENCE, PUBERTY AND HORMONES

I. Answer the following:

1. Which hormones play a role in the onset of puberty? (in male and female).
2. How father determines the sex of a baby?
3. People in hilly regions usually suffer from simple Goitre. Explain.
4. a) Can a woman who has HIV pass the Virus to her baby? Explain.
b) Can a person get HIV from a mosquito bite? Explain.
c) Is there a test for HIV infection? Name few.
