

# GURU GOBIND SINGH PUBLIC SCHOOL

SECTOR-V/B B.S.CITY

## ASSIGNMENT FOR CLASS VIII FOR 2018-19

### Subject : Physics

- Define
  - State of motion.
  - S.I unit of force and pressure.
  - Friction.
  - Atmospheric pressure.
  - Electric charge.
  - Electroscope.
  - Lightning.
  - Persistence of vision.
- Give differences between
  - Contact force and non contact force with examples.
  - Static friction and rolling friction.
  - Noise and music.
  - Regular reflection and diffused reflection.
  - Stars and planet.
  - Meteor and a meteorite.
- Give reason
  - School bags have wide straps.
  - It is necessary to define a new unit to measure distances in universe.
  - A charge object attracts an uncharged object.
  - A person should not stand under a tree during thunderstorm.
  - An owl can see well in the night whereas an eagle can see well during the day.
- Answer the following questions
  - Explain how you can locate the polestar with the help of Ursa Major constellation?
  - What are the cause of earthquake and write its two precautions?
  - State the relation between angle of incidence and angle of reflection and write two characteristics of image formed on plane mirror.
  - What are the functions of Iris and pupil? Write in brief.
  - Give two examples where force can change the shape of object.
- A force of 100 Newton is applied to an object of area  $2 \text{ cm}^2$ . Calculate pressure.
- Show the positions of moon in its orbit and its corresponding phases by a diagram. What causes phases of moon?
- Draw a labeled diagram of human ear.
- Define reflection of light. State two laws of reflection and show its ray diagram on plane mirror.
- Draw the solar system.
- What is lightning? Why does lightning usually strike on tall building?
- Name the cell on the retina of an eye which is sensitive to bright light.
- Name the star which is closest to the earth.
- Name a device which is used to measure force acting on an object.

### Subject : Chemistry

- What would happen if water is used to put out a fire caused due to electricity?
- Define chemical effect of electric current.
- During electrolysis of water what is formed at anode?
- Which metal is electro plated on iron for making cans used for storing food?
- What are the disadvantages of burning wood as a fuel?
- Name two strong and two weak electrolytes.
- Copper is a metal and sulphur is a non-metal. Explain.
- Write physical properties of metals and non-metals.
- Define electro plating. What is the purpose of electro-plating?
- Give two examples of each:
  - Types of combustion
  - Electrolytes
  - Ions
  - Synthetic fibres
  - Metals
  - Natural fibres
  - Solid fuels
  - Rapid combustion
- Differentiate between:

- a) Slow and spontaneous combustion
- b) Acidic oxides and basic oxides

- c) Natural and synthetic fibres
- d) Thermosets and thermoplastic

12. Draw a neat and labeled diagram of :

- a) A candle flame
- b) Electroplating
- c) Electrolysis of water

**Subject : Biology**

**1. Define the following terms:-**

- Deforestation
- Puberty
- Global warming
- Marble Cancer
- Transplantation
- Metamorphosis
- Greenhouse gases
- Adolescence

**2. Give two examples:-**

- Toxic metals
- Endocrine glands
- Plant organs
- Kharif crops
- Rabi crops
- Solid pollutants
- Hormones
- Cell organelles

**3. Differentiate between:-**

- Embryo and Foetus
- Pure air and polluted air
- Endocrine and Exocrine glands
- Sexual and Asexual Reproduction
- Manure and fertilisers
- Menarche and Menopause
- Sperm and Ovum
- Prokaryotic and Eukaryotic Organisms.

4. What is irrigation? Why is it necessary?

5. What is acid rain? Write its effects.

6. Name the endocrine glands with hormones.

7. Explain Ganga Action Plan.

8. Explain budding in hydra and binary fission in Amoeba.

9. What is Secondary Sexual Characteristics in male and female?

**10. Give scientific terms:**

- A) An unwanted and harmful substance that contaminates the environment.
- B) An unborn baby in the uterus when all the body parts are identified.
- C) The part of the earth in which living organisms exists
- D) The hormones which prepares our body to function at maximum efficiency during emergency situation like danger, fear etc
- E) The cells having nuclear material without a nuclear membrane around it.
- F) The faulty functioning of an endocrine gland that can make a person very tall or very short.
- G) The undue rise in the temperature of earth's atmosphere due to excessive greenhouse effect.

11. Explain the case of Taj Mahal.

**12. Draw the diagram of the following**

- a) Animal and plant cell
- b) Male and female reproductive system
- c) Position of endocrine glands in human body

13. Write organs of male and female reproductive system.

**14. Fill in the blanks:**

- a. The shape and size of a cell is related to its .....
- b. Dried ..... eaves are used for storing food.
- c. Menstrual cycle in women is controlled by.....
- d..... is a commonly used chemical method for purifying water.
- e. Amoeba reproduces by .....
- f..... are caused by the clogged and infected skin pores
- g. The slow corrosion of marble in monument by acid rain is.....
- h. The deficiency of thyroxine hormone causes a disease known as.....
- i. An unborn baby at an early stage of development in uterus is called an .....
- j..... is the power house of the cell.

13. Give scientific terms:

- a) The amount of heat produced by the complete burning of one kg of a fuel
- b) The plastic which is coated on the uniform of firemen
- c) Element which is stored under kerosene
- d) A material which is burnt to produce heat
- e) A substance which cannot be broken down into two simpler substances by chemical reactions
- f) The chemical decomposition produced by passing an electric current through a conducting liquid

14. Fill in the blanks:

- a) ..... is not a synthetic fibre.
- b) ..... is a metalloid.
- c) The poisonous gas formed as a result of incomplete combustion is .....
- d) ..... is first fully synthetic fibre.
- e) Forest fruits and vegetables conduct electricity to some extent due to presence of various ..... solutions in them.