



Summer Valley School, Dehradun

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Class IX /Assignment 1

30 March 2020

PHYSICS:

- Q. 1 Write speed of light in the following medium (a) air (b) water (c) glass.
- Q. 2 What do you mean by a rarer medium and a denser medium?
- Q. 3 Define (a) refraction (b) reflection of light ray.
- Q. 4 State the two laws of refraction.
- Q. 5 State two laws of reflection.
- Q. 6 State the phenomenon observed when a light ray falls on a
(a) transparent glass slab (b) mirror
- Q. 7 Draw a diagram to show the refraction of a light ray falling obliquely on a rectangular glass slab.
- Q. 8 Draw a diagram to show reflection of a light ray falling on the surface of mirror at 70 degree
- Q. 9 Name and define the two types of reflection of light also, draw the diagram of the types.
- Q. 10 Write three difference between a real image and virtual image
- Q. 11 State five characteristics of the image formed by the plane mirror.
- Q. 12 What is a Spherical mirror? Draw the diagram of the two types of Spherical Mirrors
- Q. 13 Define the following for a Spherical mirror.
- Centre for Curvature
 - Pole
 - Focus
 - Radius of Curvature
 - Principal axis.
 - Normal
- Q. 14 Draw the diagram to show reflection of light ray from a convex mirror for the following cases
- A ray passing through centre of curvature
 - A ray parallel to principal axis
 - A ray passing through focus
 - A ray incident at pole
- Q. 15 Write the relationship between the Focal Length and Radius of Curvature of a spherical mirror
- Q. 16 State the two reasons for using Convex Mirror as a rear view mirror.
- Q. 17 Write four differences between a Concave and Convex mirror
- Q. 18 Draw the table showing position, size and nature of the image formed by a Concave Mirror for different positions of object
- Q. 19 Draw ray diagram to show the formation of image of an object using convex mirror when,
- Object is at infinity
 - Object is at other point near to the mirror
- Q. 20 Write Mirror formula.



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CHEMISTRY:

Chapter - Language of chemistry.

Question 1.

Learn and write the following definitions.

1. Valency
2. Radical.
3. Symbol.
4. Chemical formula
5. Variable valency

Question 2:

Learn the valency chart and write two times .page no 3

Question 3:

Learn the name and formula of important compounds .page no 5

Question 4:

Write the names of the following compounds

Page 15, question no 13

Question 5:

Write the balanced equations for the following word equations: question 20, page no 16

Question 6:

Balance the first 10 chemical equations on page 17 question no 21.

BIOLOGY:

Chapter 15:-Hygiene (Page No. 150)

1. Define (a) Health (b) Hygiene (c) Vectors (d) Contamination
2. Give reasons for the following-
 - (a) We must wash our hands before eating food.
 - (b) Daily bath is very important for our health.
 - (c) We must never share towels with others even in the same family.
 - (d) Physical exercise should be systematic and regular.
 - (e) Living rooms should be well ventilated.
 - (f) We must keep our food covered.
3. Discuss different ways by which houseflies spread diseases.
4. Discuss different ways to control the houseflies.

NOTES-

- Hygiene Is A General Topic And You Are Familiar With It As You Have Studied It In Previous Classes.
- Do The Given Assignment In Biology Register.
- Worksheet Will Be Given Later.



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HISTORY:

Ch -1 “Harappan civilization”

Sources to reconstruct the harappan civilization (pg - b-4).

The origin and extent of the civilization (b-5).

Period of the civilization (b-6).

Social and economic life (b-8).

Art and craft (b-8).

Seals and their importance (b-12).

Religion (b-13).

Decline of the civilization (b-13).

GEOGRAPHY:

1. Study the printed Maps, In the map booklet:
 - A) Practice MAP 1: Label and color all the rivers
 - B) Practice MAP 2: Label and Color all the water bodies
2. At the back of practice Map 1 draw a neat and well labelled diagram of ‘water cycle’ (Page 10, Fig 1.8)
3. At the back of practice Map 1 draw a neat and well labelled diagram proving the spherical shape of Earth (Page 7-8, Fig 1.1, Fig 1.2)

COMPUTER:

Read Chapter – Chapters 1, 2 and 3 and learn the following mentioned topics.

1. Learn programming generation languages.
2. Advantages and disadvantages of OOP
3. Characteristics of Java.
4. Learn definitions of the following terms –
5.
 - a. Paradigm
 - b. Abstraction
 - c. Inheritance
 - d. Polymorphism
 - e. Object
 - f. Class
 - g. Bytecode



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HOME SCIENCE:

Q. 1 Fill in the blanks

1. Home science was first introduced by king of _____.
2. Home science was the first started in the year _____.
3. Study of home science helps in understanding of _____.
4. The _____ and _____ Ministry of India has proposed learning home science compulsory for both boys and girls.
5. The purpose of communication and _____ education is to extend the education received in the classroom.

Q. 2

1. Name the intimately related branches of science to home science.
 - a.
 - b.
 - c.
 - d.
 - e.
2. Home Science can be classified into the following subjects.
 - a.
 - b.
 - c.
 - d.
 - e.

Q. 3 name the subjects of home science under which the related career options come.

1. Hotel management dietitian and Catering comes under _____ and _____.
2. Garment exporter, fashion designer comes under _____ and _____.
3. Counselor, care of elderly comes under _____.

Q. 4 name them

1. A person who works for or another person or organisation and receives salary is called _____ employment.
2. When the person works for himself and owns the Enterprises, it is called _____ employment.

Q. 5. Name five area of self employment.

- a.
- b.
- c.
- d.
- e.