GYANDEEP HIGH SCHOOL

Affiliated to C.B.S.E, New Delhi (10+2)

Shantivan, Nirala Nagar, Digha, Patna-800 011

PRACTICAL EXAM

Class : XII **F. M.: 30 Each**

Subject : Practical/Project

PHYSICS

SECTION: A

1. To find the resistance of a given wire using a meter bridge.
2. To determine the resistance of a given wire by plotting a graph of V and I.
3. To verify the law of combination of resistance (series and parallel) using a Metre bridge.
4. To compare the emf of two dry cell by using potential difference.

SECTION: B

5. To determine the focal length of a given convex lens by (u-v) method.
6. To find the focal length of concave mirror by plotting graph b/w u and v and also between $\frac{1}{u}$ and $\frac{1}{v}$.
7. To verify laws of refraction of light by using glass slab.
8. To determine the minimum angle of deviation through prism.

Project Report on Physics

a. Draw a project report on A.C Generator in which we explain about, introduction, principal construction, working and its emf equation.

OR

b. Draw a project report on rectifier in which we explain about definition types, constructions, working principle and output both half and full wave rectifier.

The project done in stick files with hand written form

CHEMISTRY

1. Prepare 250 ml of $\frac{M}{20}$ $of\ Mohr's\ salt\ solution$. with its help determine the molarity of the given solution of $KMnO_4$.
2. Prepare the 250 ml of $\frac{M}{50}$ of oxalic acid solution with its help determine the molarity of the given solution of $KMnO_4$.
3. Prepare crystals of potash alum .
4. Prepare a sample of Acetanilide .
5. Identify the functional group present in the given organic compound.
6. Three different liquids acetic acid , acetaldehyde and alcohol are present in three different bottle . Find out which bottle contains which liquids.
7. Separate the pigment from extracts of leaves and flowers by paper chromatography and determination of R_f values.

Project Report on Chemistry

a. Determine the quantity of casein present in different samples of milk.

OR

b. Compare the rate of fermentation of the given samples of wheat flour and gram flour and potato juice.

Project done in stick files with hand written form

BIOLOGY

Section - A

1.1 To study the pollen germination on slide.
2.1 To study the texture and moisture content of different soils.
2.2 To study pH of different types of soil.
3.1 To study the water holding capacity of garden soil and roadside soil.
4.1 Collect water from two different water bodies around you and study them for pH.
4.2 Collect the water from two different water bodies around you and study them for clarity and presence of particulate matter (suspended pollutants) in different samples of water.
5.1 To study the action of salivary amylase on starch.

Section – B

6.1 To study the flowers adapted to pollination by different agencies (wind, insects and birds)

7.1 To study the pollen germination and growth of pollen tube in a pollinated pistil (In Portulaca/grass or any other suitable flower)

8.1 To study and identify the stages of gamete development in mouse (mammal) i.e. T.S of testis and L.S if ovary through permanent slide…

9.1 To study meiosis in onion bud cell through permanent slide.

9.2 To study meiosis in grasshopper testis through permanent slide.

Project

10.1 To study T.S. of blastula through permanent slide.
11.1 To study Mendelian inheritance using seeds of different colour/size of any plant.
12. Study of Common Disease Causing Organisms.
13.1 Adaptation of Plants and Animals Found in Xerophytic conditions.

Project done in stick files with hand written form

FINE ARTS (70 Marks)

1. Prepare a drawing copy including sketching, shading, drawing etc.
2. Assessment work : in A_3 size white chart paper
   a. Still life with pencil shading.
   b. Nature study (any plant) in water color
   c. Landscape in water color.
   d. Composition in pencil color or water color.
   e. Draw any movement or any famous person of India.

Mathematics :

PROJECT WORK (20 Marks)

1. Working Model :-
   Rolle's Theorem

OR

2. Working Model : -
   Mean value Theorem.

Project done in stick files with hand written form

English :

Assessment of Listening and Speaking Skills. (20 Marks)