

Practical Project (Physics)

<u>Sl. No</u>	<u>Name of the Experiment</u>
01	To compare the emf of two given primary cells using potentiometer.
02	To determine the internal resistance of given primary cell using potiometer.
03	To determine resistance per cm of a given wire by plotting a graph of potential difference versus current.
04	To determine unknown resistance wire by meter bridge wire and calculate specific resistance.
05	To find the focal length of a convex lens by plotting graphs between 'u' & 'v' or between $\frac{1}{u}$ and $\frac{1}{v}$.
06	To find the focal length of a convex mirror using a convex lens.
07	To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
08	To verify the laws of combination (series/ parallel) of resistances using a meter bridge.
09	To find focal length of a concave lens, using a convex lens.
10	To draw the I-V characteristics curve of a p-n junction in forward bias and reverse bias.



Practical Project (Biology)

<u>Sl. No</u>	<u>Name of the Experiment</u>
1	To study the pollen germination on slide.
2	To study the flowers adapted to pollination by different agencies (wind, insect).
3	To study and identify the stages of gamete development in mouse (mammal) i.e., T.S of testis and I.S of Ovaries through permanent slide.
4	To study the water holding capacity of garden soil and roadside soil.
5	Collect water from two different water bodies around you and study them for pH.
6	Collect 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.
7	To collect different water samples for the presence of living organisms.
8	Study of two plants and two animals found in xerophytic conditions and comment upon their adaptations/morphological features.
9	Study of two plants and two animals found in aquatic conditions and comment upon their adaptation/morphological features.
10	To study the texture and moisture content of different soil.
11	To study PH of different types of soil.
12	Study of common disease causing organisms.
13	To study T.S of blastula through permanent slide.



Practical Project (Chemistry)

Sl. No

Name of the Experiment

1. To prepare colloidal solution of egg albumin.
2. To prepare a pure sample of ferrous Ammonium Sulphate (Mohr's Salt)
3. To prepare 250 ml of M/W solution of oxalic acid from crystalline oxalic acid.
4. To prepare 250 ml of M/20 Solution of Mohr's Salt.
5. To prepare colloidal solution of starch.
6. To prepare colloidal solution of ferric hydroxide.
7. To test the presence of alcoholic groups.
8. To distinguish between 1, 2, 3 alcohol.
9. To prepare M/20 solution of Mohr's salt. Using this solution find out the molarity and strength of the given KMnO_4 solution.
10. To prepare M/20 solution of oxalic acid and determine the molarity and strength of KMnO_4 .

Note: Any two investigatory Project work in each subject – i.e.

✎. **Physics**

✎. **Chemistry**

✎. **Biology**

✎. **Physical Education**

Description and photographs related to any four game like, Football, Cricket, Hockey, Badminton etc. And one activity on health and education.



Practical Project (Commerce)

B.S.T:

Comparative study of any company eg: - Britannia and launch of my biscuit company (Product: - Energy Biscuit)

Economics :

Project & study on any topic (any two) – as:

- (i) Demonetization
- (ii) Make in India
- (iii) GST (Goods & Service Tax) or any other related topic.

Accountancy :

Project work on the study of any company – eg :

- (i) Dabur India Limited
- (ii) Unilever
- (iii) Ranbaxy

Practical Project (Arts)

History :

- (i) **The Harappan Civilization.**
- (ii) **The Bhakti and Sufi Movement.**
- (iii) **Partition of India.**

Political Science :

- (i) **US Cold War**