

Physics

INTERNAL ASSESSMENT OF PRACTICAL WORK

Candidates will be asked to carry out experiments for which instructions will be given. The experiments may be based on topics that are not included in the syllabus but theoretical knowledge will not be required. A candidate will be expected to be able to follow simple instructions, to take suitable readings and to present these readings in a systematic form. He/she may be required to exhibit his/her data graphically. Candidates will be expected to appreciate and use the concepts of least count, significant figures and elementary error handling.

1. Determine the VR and MA of a given pulley system.
2. Trace the course of different rays of light refracting through a rectangular glass slab at different angles of incidence, measure the angles of incidence, refraction and emergence. Also measure the lateral displacement.
3. Determine the focal length of a convex lens by (a) the distant object method and (b) using a needle and a plane mirror.
4. Determine the focal length of a convex lens by using two pins and formula $f = uv/(u+v)$.
5. Using a simple electric circuit, verify Ohm's law. Draw a graph, and obtain the slope.

Ms. Surbhi Sharma

Maths

INTERNAL ASSESSMENT

The minimum number of assignments : Two assignments as prescribed by the teacher.

Suggested Assignments

1. Comparative newspaper coverage of different items. □
2. Survey of various types of Bank accounts, rates of interest offered.
3. Planning a home budget
4. To use a newspaper to study and report on shares and dividends.
5. Cutting a circle into equal sections of a small central.

The assignments/project works are to be evaluated by the subject teacher and by an External Examiner.

Mr. Hemant Pandey

History

INTERNAL ASSESSMENT

Make a project on any one topic related to the Indian Independence Movement.

Word Limit: 1000 words.

Ms. Mahima Natrajan

Geography

INTERNAL ASSESSMENT OF PRACTICAL WORK

Candidates will be required to prepare a project report on any one topic. The topics for assignments may be selected from the list of suggested assignments given below. Candidates can also take up an assignment of their choice under any of the broad areas given below.

Suggested list of assignments:

1. Transport in India: Development of Road, Rail, Water and Air routes.
2. Need for industrialization in India, the latest trends and its impact on economy of India.
3. Waste Management-Impact of waste management. Needs & method of safe disposal of waste.

OR

4. Visit a water treatment plant, sewage treatment plant or garbage dumping or in the locality and study their working.

English II

INTERNAL ASSESSMENT

Make a project on anyone of the poems/stories in the textbook.

Treasure Trove.

The project must include: summary, Title, Themes, critical Appreciation & in case of story write characterization of one of the characters.

Word limit - 1200 words

English I

INTERNAL ASSESSMENT

Project file on letter writing or Notice & Email writing + 5 Phrasal Prepositions.

Chemistry

INTERNAL ASSESSMENT OF PRACTICAL WORK

Experiment 1

Object - To identify cations given by using NaOH Sol & NH_4OH .

Preparation of original sol - It is prepared by dissolving the given salt in one of the following solvents in the following order.

1. Distill Water first in cold & then in hot
2. Pure dilute HCL first in cold & then in hot.
3. Concentrated HCL first cold & then in hot.
 - a) Identification of Pb^{+2}
 - b) Identification of Cu^{+2}
 - c) Identification of Fe^{+2}
 - d) Identification of Fe^{+3}
 - e) Identification of Zn^{+2}
 - f) Identification of Ca^{+2}

Experiment 2

To determine acidic & basic solution.

Experiment 3

Identification of (a) Copper Oxide (b) Manganese Oxide

Experiment 4

Identification of gases H₂, O₂, CO₂, Cl₂, HCl, SO₂, H₂S, NH₃,
Water Vapor, NO₂

Biology

INTERNAL ASSESSMENT OF PRACTICAL WORK

The practical work will be designed to test the ability of the candidates to make accurate observation from specimens of plants and animals.

For this, the candidates should be familiar with the use of a hand lens of not less than x6 magnification. Candidates should be trained to make simple and accurate drawings and brief notes as a means of recording their observations. The practical examiners will assume that candidates would have carried out the practical work outlined below.

PLANT LIFE

1. Observation of permanent slides of mitosis.

2. Experiments demonstrating:
 - a. Diffusion: using potassium permanganate in water.
 - b. Osmosis: Thistle Funnel experiment & potato osmoscope.

3. Experiments on transpiration:
 - Demonstration of the process using a bell jar.
 - Demonstration of unequal transpiration in a dorsiventral leaf using cobalt chloride paper.
 - Demonstration of uptake of water & the rate of transpiration using Ganong's potometer.

4. Experiments on photosynthesis:
 - To show the necessity of light, carbon dioxide & chlorophyll-for Photosynthesis.
 - To show the release of O₂ during photosynthesis using hydrilla /elodea.

ANIMAL LIFE

- (i) Identification of the structure of the urinary system, heart (internal structure) and brain (external view) through models and charts

- (ii) The identification of different types of blood cells under a microscope.

- (iii) Identification of the internal structure of the Eye with the help of model.

- (iv) Identification & location of selected endocrine glands. Adrenal, Pancreas, Thyroid and Pituitary.

Write comments in all the structure & draw well labeled diagrams.

EVALUATION

The practical work/project work are to be evaluated by the subject teacher and by an External Examiner. (The External Examiner may be a teacher nominated by the Head of the school, who could be from the faculty, but not teaching the subject in the relevant

Section/class. For example, a teacher of Biology of Class VIII may be deputed to be an External Examiner for Class X, Biology projects.)

The Internal Examiner and the External Examiner will assess the practical work/project work independently.

Award of marks (20 Marks)

Subject Teacher (Internal Examiner) 10 marks

External Examiner 10 marks

The total marks obtained out of 20 are to be sent to the Council by the Head of the school.

Dr. Mamta Pandey