

## INTERNAL ASSESSMENT OF PRACTICAL WORK

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

### PLANT LIFE

- (i) Observation of permanent slides of stages of mitosis.
- (ii) Experiments demonstrating:
  - Diffusion: using potassium permanganate in water.
  - Osmosis: Thistle Funnel experiment and potato osmoscope.
  - Absorption: using a small herbaceous plant.
- (iii) 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 and the rate of transpiration using Ganong's potometer.
- (iv) Experiments on Photosynthesis:
  - to show the necessity of light, carbon dioxide and chlorophyll-for photosynthesis.
  - to show the release of  $O_2$  during photosynthesis using hydrilla / elodea.

### ANIMAL LIFE

- (i) Identification of the structures of the urinary system, heart and kidney (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 Ear and Eye (Through models and charts).
- (iv) Identification and location of selected endocrine glands: Adrenal, Pancreas, Thyroid and Pituitary glands with the help of a model or chart.

### 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.

The Head of the school will be responsible for the online entry of marks on the Council's CAREERS portal by the due date.