

SHEALING PUBLIC SCHOOL , CHHATARPUR

CLASS 12TH BOARD EXAM PRACTICALS (EXPERIMENTS) C.B.S.E

Note:-Practicals files publication for CBSE Board students = **EVERGREEN publication.**

BIOLOGY

1. The study and calculate the percentage of pollen germination on a slide.
2. To study the plant population density by quadratic method.
3. Prepare a temporary Mount of onion root tips to study mitosis.
4. To study the action of salivary amylase on starch.
5. To isolate DNA from available plant material like pea seed, spinach, onion etc.

Spotting --

1. To study adaptation of flowers adopted to pollination by different agencies. (wind, insects, birds and water.)
2. To study the pollen germination on stigma through a permanent slide.
3. To study the identify of stages of gamete development TS of testis, TS of ovary through permanent slides.
4. To study the TS of blastula through permanent slides.
5. To perform emasculation, bagging and tagging for controlled pollination.
6. To identify common human disease causing organisms like Ascaris, Amoeba, plasmodium and ringworms through permanent slides or specimens. Comment on symptoms of the diseases they cause.

CHEMISTRY

1. Study of the presence of oxalate ions in guava fruit at different stages of ripening.
2. Study the quantity of casein present in different samples of milk.
3. Preparation of soybean milk and its comparison with natural milk with respect to curd formation, the effect of temperature, etc.
4. Study of the effect of Potassium Bisulphate as a food preservative under various conditions (temperature, concentration, time, etc.)
5. Study of digestion of starch by salivary amylase and effect of pH and temperature on it.

Comparative study of the rate of fermentation of the following materials: wheat flour, gram flour, potato juice, carrot juice, etc.

6. Extraction of essential oils present in Saunf (aniseed), Ajwain (carum), Illaichi (cardamom).

7. Study of common food adulterants in fat, oil, butter, sugar, turmeric powder, chilli powder and pepper.

Note :- Write any three functional group test of acid base radical and any three titration . in your project book.

PHYSICS

1. To determine resistivity of two/three wires by plotting a graph of potential difference versus current
2. To find resistance of given wire/ standard resistor using meter bridge.
3. To verify the laws of combination (series) of resistance using meter bridge.
4. To find the value of v for different values of u in case of a concave mirror and to find the focal length.
5. To find the focal length of a convex mirror using a convex lens.
6. To find the focal length of a convex lens by plotting graph between u and v or between $1/u$ and $1/v$
7. To find the focal length of convex mirror using a convex lens.
8. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation
9. To draw the i - v characteristics curve for a p - n junction diode in forward and reverse bias.
10. To verify the laws of combination (parallel) of resistance using a meter bridge.

PHYSICAL EDUCATION (P.E)

1. Kabaddi
2. Hockey
3. Table tennis
4. Kho- Kho
5. Badminton

GEOGRAPHY

1. Introduction to maps.
2. Map scale
3. Latitude, Longitude and Time
4. Map Projection
5. Data – Its source and compilation
6. Data processing
7. Graphical representation of data
8. Spatial information technology.

