



Loreto Convent Intermediate College

Lucknow

SUMMER VACATION HOLIDAY HOMEWORK 2024

CLASS – XII

SUBJECT – BIOLOGY

PRACTICAL WORK – (To be done in Nootan file\Inter leaf Punch Papers)

Draw the diagrams\Tables and write the comments/ points of identifications

Physiology

i. To study the effect of enzyme action at three different temperatures and pH on starch solution. To ii. Isolate DNA from available plant material.

Cytology

Slide preparation

- Germination of pollen grain in a nutrient medium.
- T.S. of ovary of any locally available flower, to show marginal / axile placentation.
- T.S. of a hydrophyte stem. Hydrilla
- T.S. of a xerophytic leaf (Nerium). L.S. of monocot and dicot seed (soaked seeds of maize, bean.)

PROJECT WORK- (To be done on interleaf punch papers)

Format of the Project:

- Index
- Introduction
- Presentation (graphs, tables, charts, newspaper cuttings, handmade diagrams, photographs, statistical analysis if relevant)
- Conclusion/ Summary
- Bibliography Projects should be handwritten by the candidate.

The written pages should not exceed 15-20 pages.

Prepare a power point presentation on the following chapters.

(As per the board syllabus)

- Molecular basis of Inheritance
- Evolution

Links of videos for reference are provided below

<https://youtu.be/XNdvpfKaYk?si=ls2lRTNPosTDZM7x>

<https://youtu.be/1xXeTccA-w?si=30Eap82S-hdIWYex>

<https://youtu.be/RTX9si5RBb0?si=cyatoSAH2DWqV4> d

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