



Loreto Convent Intermediate College

Lucknow

Summer Holiday Homework

Class-12Sc (2026-27)

Subject-Biology

PRACTICAL WORK – (To be done in practical file)

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.
- ii. To isolate DNA from available plant material.

Cytology

Slide preparation

- i. Germination of pollen grain in a nutrient medium.
- ii. T.S. of ovary of any locally available flower, to show marginal / axile placentation.
- iii. T.S. of a hydrophyte stem. *Hydrilla*
- iv. T.S. of a xerophytic leaf (*Nerium*).
- v. 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.

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The written pages should not exceed 15-20 pages.

Prepare a power point presentation on the following chapters. (As per the board syllabus)

- i. Molecular basis of Inheritance
- ii. Evolution

Links of videos for reference are provided below

<https://youtu.be/XNdvpfKaYk?si=Is2IRTNPosTDZM7X>

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

https://youtu.be/RTX9si5RBb0?si=cyatoSAH2DWqV4_d



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