

DELHI PUBLIC SCHOOL JAMMU
HOLIDAY HOMEWORK
SESSION: 2022-2023

Class: XII

Subject: Biology

Science operates on the edge of what is known, to discover more about what is not... we have to be a person of what we can do to explore being young scientists.....

I.1 Make an investigatory project on any of the following topics:

For selection of the topic for the project, read different chapters of your syllabus and also consult scientific literature, magazines, and newspapers, search engines of internet, etc. Then select the topic of your interest.

- ✓ Importance, usage and preparation of bio-insecticides and pesticides.
- ✓ Population Explosion and Control.
- ✓ HUMAN DISEASES Any human disease can be taken as a topic and collect the complete information with statistical data and a support of statistical analysis about the same questioners.
- ✓ Effect of salinity of water on the growth of one type of plant.
- ✓ Effect of pH of water on the growth of one type of plant.
- ✓ Applications of Biotechnology.
- ✓ Genetically Modified Organisms.
- ✓ Drug Addiction and Control.
- ✓ Role of Microbes in Human welfare.

I.2 Following points should be kept in mind while performing the experiments for the project work.

1. Compare your results with those available in the reference books.
2. Discuss your results in the light of available information about the project and draw out meaningful conclusion.
3. Make use of histograms, graphs, photographs, diagrams or models to support your observations and conclusions.
4. Give a list of books, magazines/journals and internet sites you have consulted during the course of your project.
5. Acknowledge the guidance, help and assistance rendered by your Principal, teachers, parents, and friends by expressing sincere gratitude and thanks to them in the beginning.

I.3 How to write an investigatory project:

Students are required to get their project report written on bond paper sheets and to represent in the best possible manner. The project report should be written in the following sequence:

1. Title / Aim – Name of the project.
2. Introduction – Information collected from various sources related to the topic.
3. Observations – Record your observations / data in the form of tables, histograms, graphs, photographs, etc.
4. Results / Conclusion – Give analysis of the data and compare your results with those available in the literature and draw conclusions.
5. References – Give the list of books, internet websites, magazines or journals you have consulted, for the project work.

Note –

1. The date of submission of the Holiday Homework to the respective subject teachers will be 14- 07-2022 (offline mode).

2. Rubrics:

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| ❖ Content & Research Presentation | 5 marks |
| ❖ Presentation Skills | 3 marks |
| ❖ Creativity | 2 marks |