

# DEPARTMENT OF PRE-UNIVERSITY EDUCATION

## ASSIGNMENT-1

### IIPUC

### BIOLOGY (36)

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#### GUIDELINES:

- This comprises of five assignments. Each student can select any two assignments given below. Each assignment carries 5 marks (2 x 5=10). Restrict each assignment to 200-250 words.
  - Each assignment shall include a brief introduction, followed by observations made, data collected (wherever necessary) and conclusion. References, if any, may be mentioned at the end of the assignment. Adding supportive documents such as: illustrations / graphs / photographs / advertisements from print media may be encouraged.
  - In case of difficulty in finding resources for the assignment, especially in Covid-19 prevailing areas and containment zones, etc., teachers can assist the students for the collection of information by organising lectures / group discussions / debates / collection of data from web resources, wherever it is required.
  - Assignment preparation is aimed only at motivating the students to enhance their field knowledge, scientific skills and temperament.
  - Assignments have to be preserved in the college after evaluation.
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1. Select any five seasonal breeders belonging to different species and collect information about these animals from various sources. Prepare and submit a report having information such as: name of the animal, the period during which it breeds, average life span and approximate number of progeny it can produce.

2. Collect any five flowers belonging to different species from your locality. Prepare and submit a report having information such as: name of the plant, sexuality (unisexual / bisexual), type of anther (monothealous / dithealous) and nature of carpel/s (apocarpous / syncarpous).
3. Gather information about urine pregnancy test (UPT) kit from web resources. Prepare and submit a report having information such as: commercial name, components of the kit and method of testing. Illustrations can also be added as supportive material.
4. Due to Covid-19, 21<sup>st</sup> century has witnessed an unprecedented global pandemic. Collect information from web resources such as: statistical data on incidence of covid-19 infection for a week of your district / state / country. Prepare a graph showing: a) Number of individuals infected b) Date and identify the trend. Add a note on different vaccines used to combat Covid-19 in our country.
5. Collect information about the blood groups (ABO) of a family. Prepare a blood group inheritance chart from parents to offspring by showing phenotype and probable genotype of each member. Identify the universal donor and universal recipient if any, by giving appropriate reasons.