

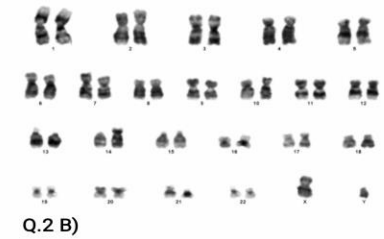
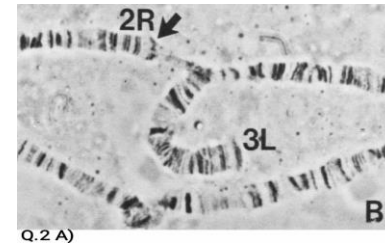
Semester V BSc Honours Practical Examination 2020
ZOOLOGY
PAPER: Core Courses

CC11: Ecology; FM-30

1. Write the principle and procedure of determination of Dissolved Oxygen content of a water sample. 5+5
2. Prepare a report on the conservation of either Tiger, or Vulture or Olive ridley. 20

CC12: Principle of Genetics; FM-30

1. In the garden pea, yellow color (Y) is dominant to green (y), and round pod shape (R) is dominant to the constricted form (r). Considering both of these traits jointly in self-fertilized dihybrids (dihybrid cross), the progeny appeared in the following numbers : **556 yellow, round, 193 green, round, 184 yellow, constricted, 61 green, constricted**. Do these genes assort independently? Support your answer using Chi-square analysis ($p=0.05$). 10
2. Identify the following: 2x5



1. Analyze the given pedigree with description, rationale, genotype and inference. 2+4+3+1

