

# ANANDA CHANDRA COLLEGE

AFFILIATED TO UNIVERSITY OF NORTH BENGAL



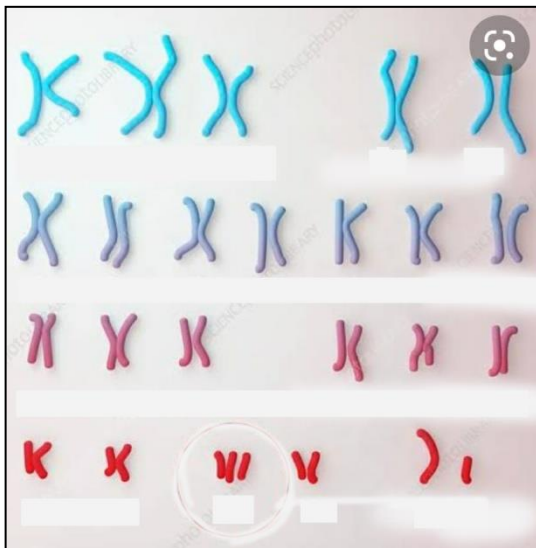
## Department of Zoology

4<sup>th</sup> Semester Practical Examination

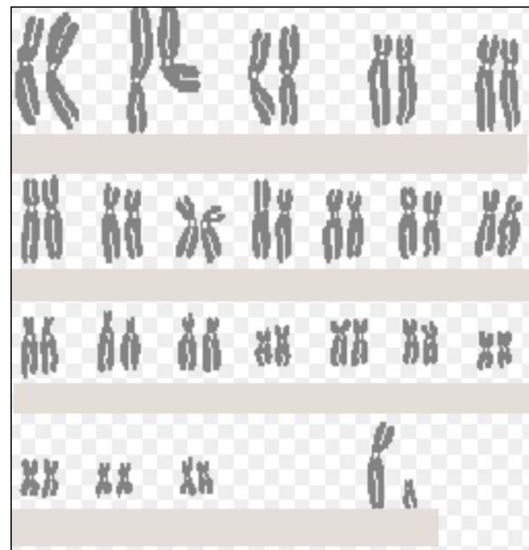
Paper-DSC-4  
Genetics & Evolutionary Biology

Full Marks-20  
Time- 2 Hrs

1. The progeny of a test cross between Round and Yellow double heterozygote (Rr Yy) and wrinkled green homozygote (rr yy) are – 154 round yellow, 124 round green, 144 wrinkled yellow, 146 wrinkled green. Assuming that the progeny are in the 1:1:1:1 ratio, test the goodness of fit of the results. Apply Chi-square test and comment. (10)
2. Identify the human Karyotype with reason. (5X2=10)



a.



b.