

B.Sc Semester V (CBCS) Honours Practical Examination, 2020

Subject: Zoology

Paper: ZOOA-CC5-12-P, PRINCIPLES OF GENETICS

LINK FOR GOOGLE FORM SUBMISSION

<https://forms.gle/KexdJQWQmnBECseNA>

Full Marks = 30

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

1. In a research Laboratory, a genetic cross gave 103 normal female flies and 53 normal male flies. Explain the result with a suitable genetic cross and statistical test.

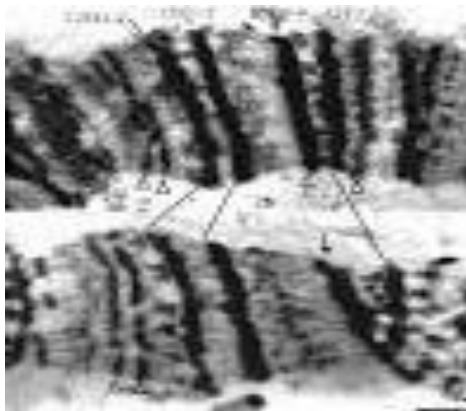
Given: Table value of Chi square at $df = 1$ at 0.05 is 3.84.

10 marks

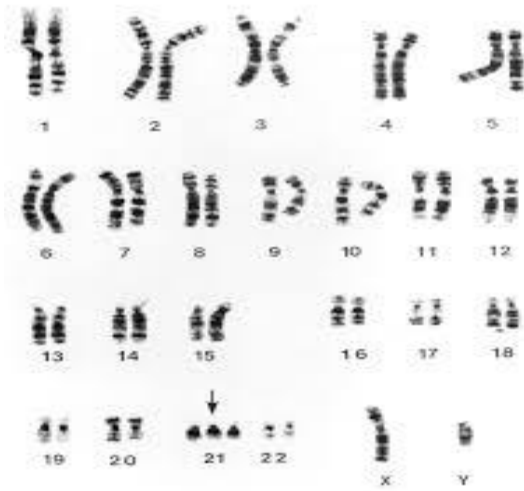
2. Identify the nature of Chromosomal aberration from the illustrations given below; Mention the name of the species where this aberration is found, mention the type of aberration observed and write its characters.

$\{(1 + 1 + 3 = 5) \times 2\} = 10$ marks

A.



B.



3. Analyze the given Pedigree stating its :

- i. Description
- ii. Rationale
- iii. Genotypes
- iv. Type of Trait

2 + 4 + 3 + 1 = 10 marks

