

Aziz

Aziz Noorji

Poonam Tomar

परीक्षार्थी का पूरा नाम

कक्ष निरीक्षक का नाम

परीक्षार्थी द्वारा सम्पूर्ण विवरण लिखा गया है।



R

2018-

भाग-2

M.Sc. Internal

चौधरी चरण सिंह विश्वविद्यालय, मेरठ
Ch. Charan Singh University, Meerut

निम्नलिखित विवरण परीक्षार्थी द्वारा स्वयं भरा जाए (To be filled by the Examinee)

परीक्षा का नाम M.Sc वर्ष 20 19 भाग/सेमेस्टर II Sem
(Name of Exam) (Year 20.....) (Part / Semester)

विषय Zoology प्रश्न-पत्र/पाठ्यक्रम Genetics पेपर कोड नं.
(Subject) (Paper / Course) (Paper Code No.)

परीक्षा का दिन Thursday दिनांक 28/3/19
(Day of Examination) (Date)

प्राप्तांक एवं पूर्णांक परीक्षकों द्वारा भरे जायें

पूर्णांक (Max. Marks)

प्रश्नों की क्रम संख्या	a/I	b/II	c/III	d/IV	e/V	f/VI	g/VII	h/VIII	i/IX	j/X	योग
1	1	2	1	1	1		4.2				
2	2	1.2					3.2				
3	4.2	5								8.2	
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											

प्राप्तांक

(शब्दों में)	अंकों में
--------------	-----------

जाँचकर्ता के हस्ताक्षर एवं तिथि

परीक्षक के हस्ताक्षर एवं तिथि



2018- चौधरी चरण सिंह विश्वविद्यालय, मेरठ

R

Date Stamp to be affixed here

meerut group

(परीक्षार्थी द्वारा भरा जाए)

परीक्षा का नाम M.Sc भाग/सेमेस्टर II Sem
विषय Zoology
प्रश्न पत्र Genetics दिनांक 28/3/19

परीक्षार्थी का अनुक्रमांक (Roll Number)

उत्तर-पुस्तिका क्रमांक

1890182340

KM-I-01-

M	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
D	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
E	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
F	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
G	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
H	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
I	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
J	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
K																			
L																			
P																			
S																			
T																			
U																			
V																			
W																			

कालेज कोड

018

(परीक्षार्थी की श्रेणी)

- संस्थागत
- व्यक्तिगत
- बैक पेपर
- अंक सुधार
- भूतपूर्व
- एकल विषय

नामांकन संख्या (Enrollment Number)

M 15533860

पेपर कोड H-1067

M	1	5	5	3	3	8	6	0											
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9

परीक्षार्थी का पूरा नाम

Poonam Tomar

कक्ष निरीक्षक का नाम

Aziz

Section = A

Q=1 Mandal selected pea plant for his experiment.

Ans
Mandal selected pea plant for his experiment. Mandal his experiment pea plant pythas stivam pythegarain for the self fertilization and very essay crossed for pea plant and his ~~not~~ experiment is not another plant. pea plant is self fertilization and very essay crossed.

done flow

Pranav Sahir

Q=2 Name termination genetic code ?

Ans
2

Termination genetic code \Rightarrow 1 amino acid is code by 1 codon. There are

three types of Termination code.

- ① UAA
- ② UGA
- ③ UAG



Ans=3

GISH \Rightarrow Genomic in situ Hybridization (GISH)

is a cytogenetic technique processing of a gene ~~end~~ DNA.

Genomic ~~is~~ in situ Hybridization (GISH) is the lost of plant experiment

and after the experiment of animals.
 Its experiment is (successes is site
 Hybridation).

Ans = 4

Use of PCR

\Rightarrow

Polymerase chain reaction

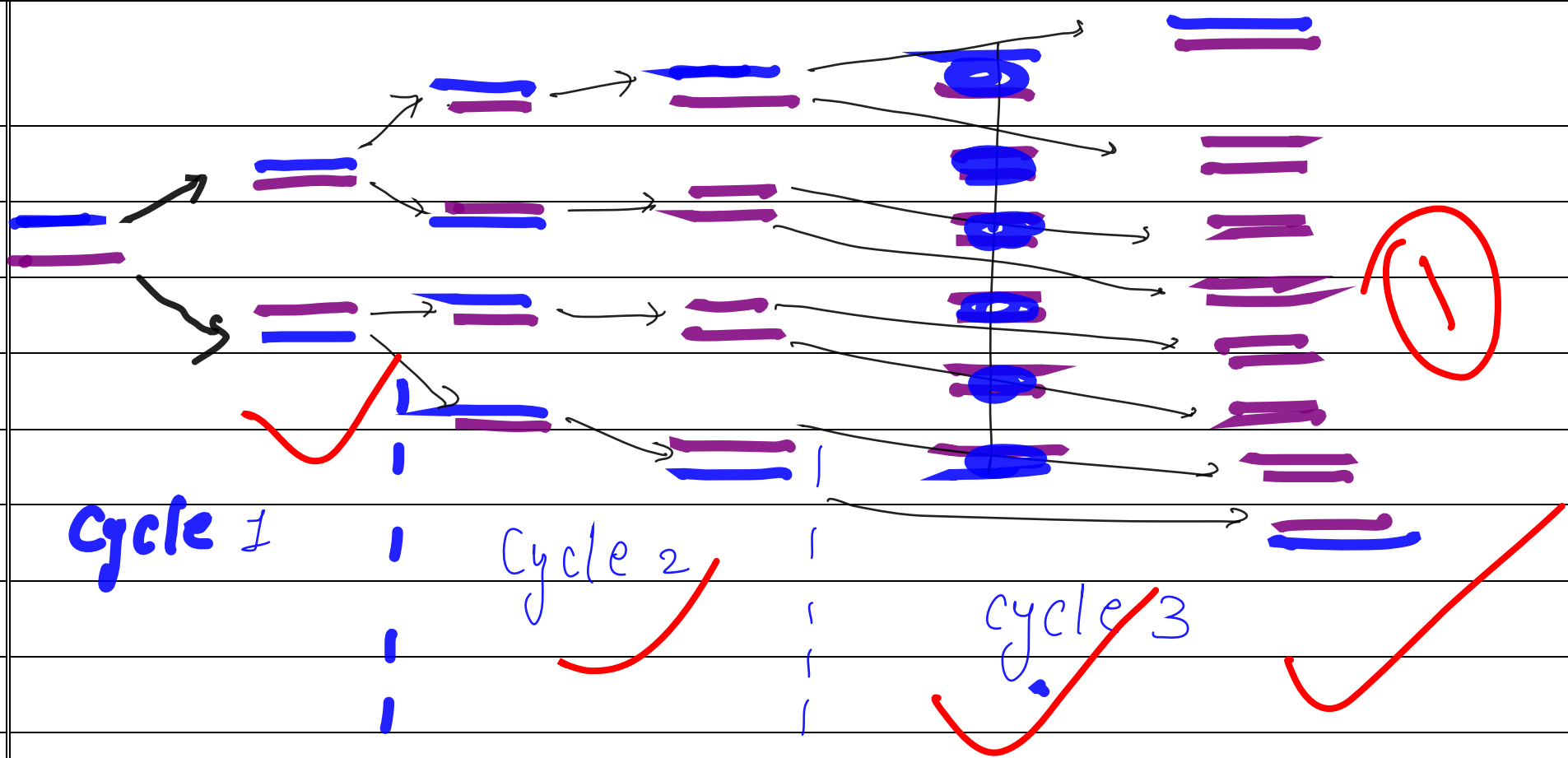
(PCR) is the million of

copies of DNA fragment.

Use of PCR

DNA fragment and

gene.



Ans = 5

Co-Dominance

\Rightarrow When a two red and two white crossed which are the pink dominance that is known as Co-Dominance.

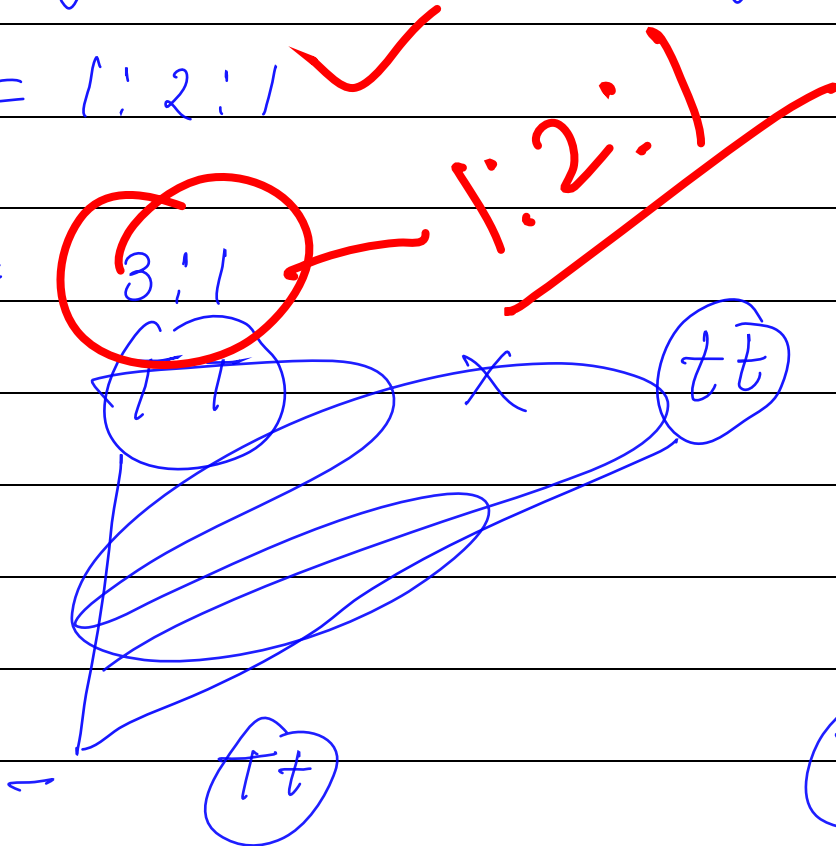
Q

The two heterozygous is the crossed the Allele are Genotype and phenotype.

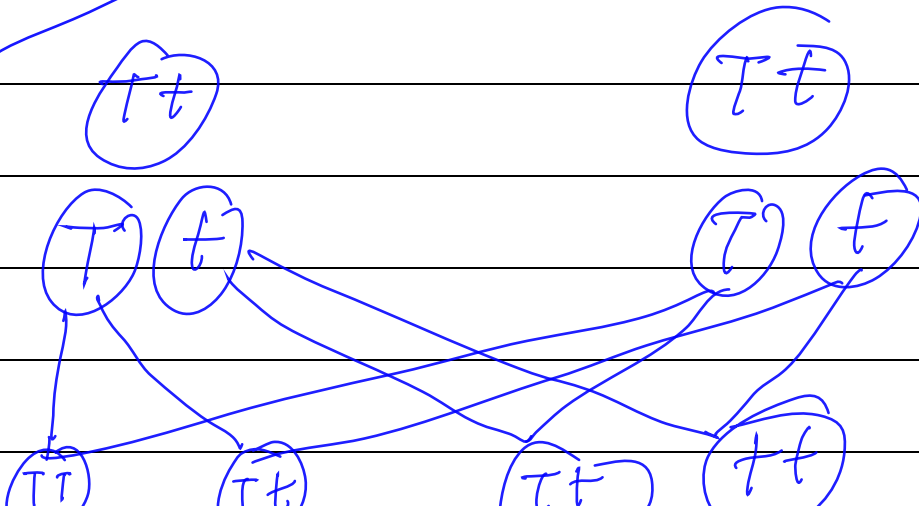
Genotype = 1:2:1 ✓

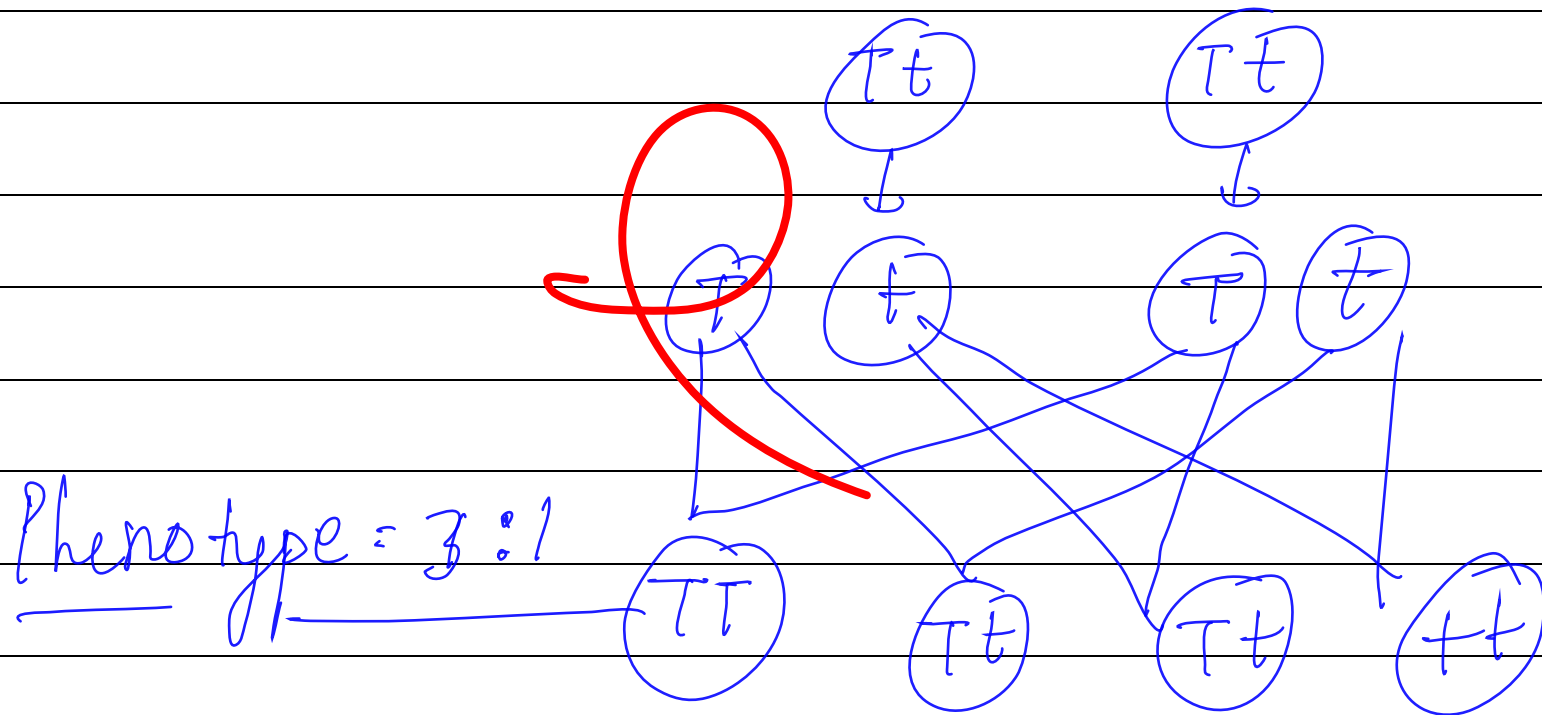
Phenotype = 3:1 ✓

$\frac{3}{4}$



Genotype = 1:2:1





Section \Rightarrow C

①

Summary

Genetic Disorder

Genetics Disorder



Disease and genetic disorder which are transfer for his parents.

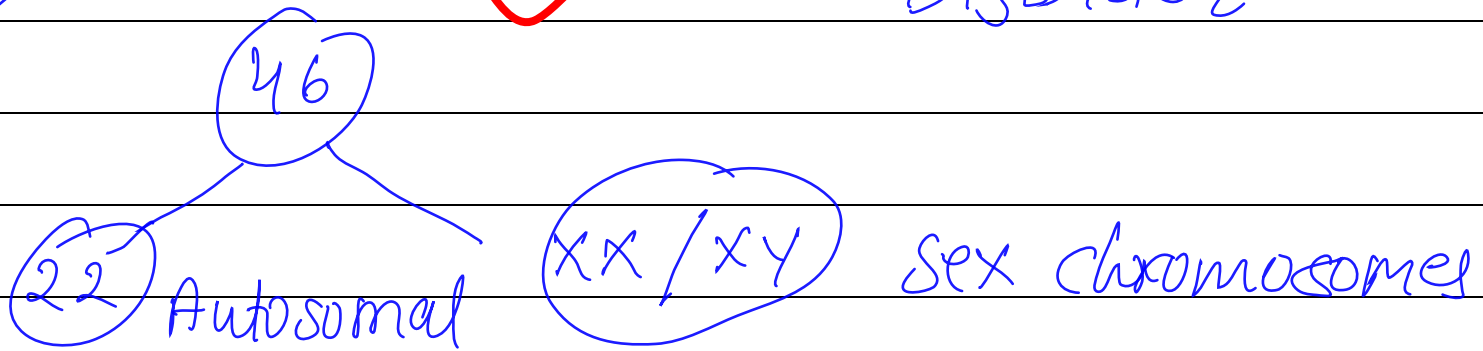
Genetic Disorder



- ① ~~Autosomal chromosomal abnormalities~~
- Monogenic Disorder

Autosomal chromosome Disorder

sex chromosomal Disorder



Autosomal chromosome Disorder



- ① Down Syndrome
- ② Patau's Syndrome
- ③ Edward Syndrome

Sex chromosome Disorder

- ① Turner Syndrome
- ② Klinefelter's Syndrome

Human karyotype $2n=46$

Autosomal chromosomal :- 22 pairs of autosomal chromosomes and 2 pairs of sex chromosomes
XX / XY are the all graph is known as Human karyotypes.

① Down syndrome \Rightarrow Down syndrome are the (trisomy of 45 CXXY)
 No. of 21 chromosomes is less 1 chromosome coming extra. and then the 1 chromosome is called Down syndrome

①

Infertile

②

Mentally retarded

③

Short life span

④

Small hair, Mouth.

genotype (?)

②

Edward Syndrome \Rightarrow

①

Infertile

②

Mentally retarded

③

Die with a after

Birth in six month.

① Small, face, mouth, eyes and hairs.

③ Patau's Syndrome \Rightarrow ① Mentally retarded

② short life span

③ Infertile

④ head small

Sex-linked chromosomes

① Turner syndrome \Rightarrow XX^0

- ① Infertile
- ② 45 f xxy
- ③ Mentally retarded
- ④ Short life span
- ⑤ (trisomy)

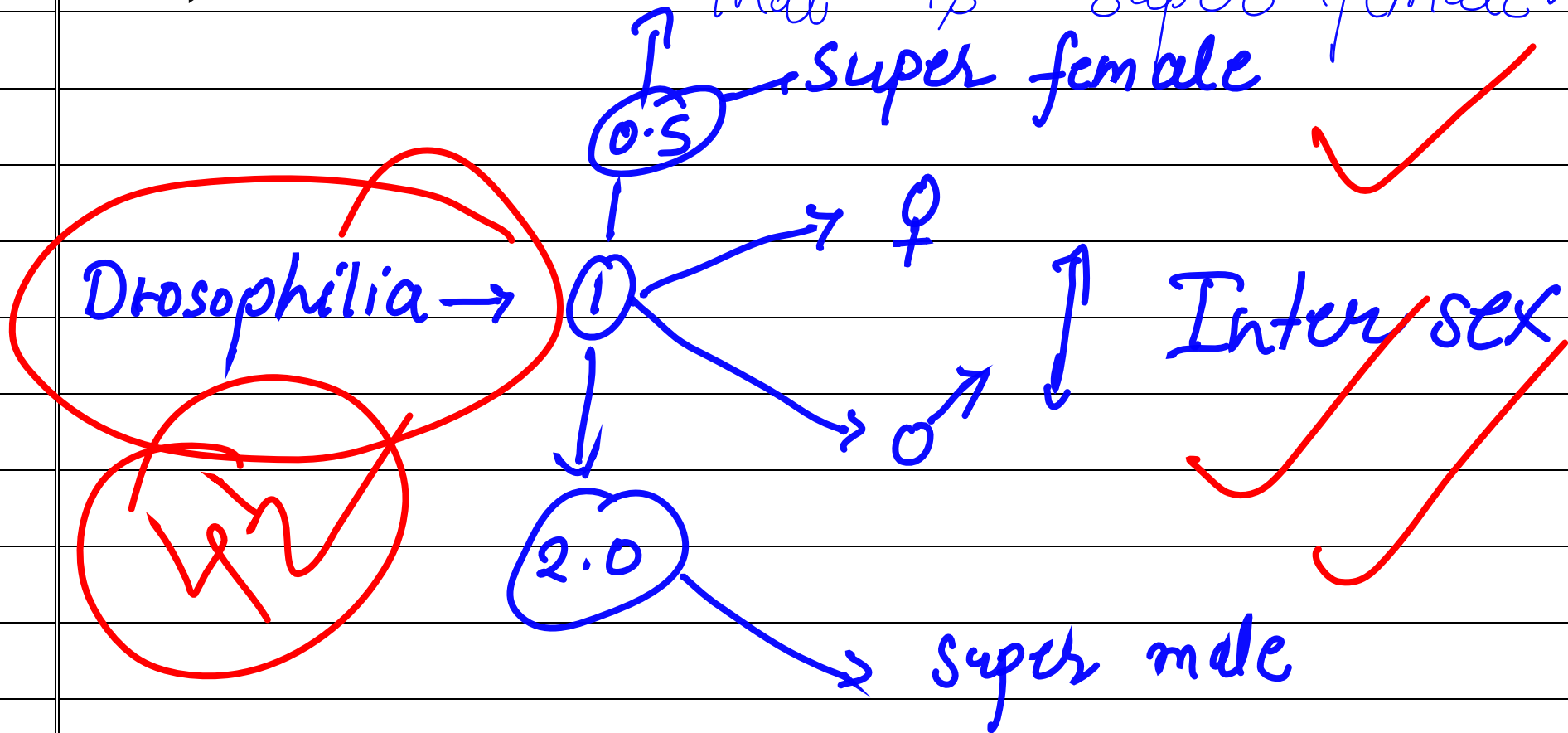
② Kline felter's Syndrome $0^p=7$

- ① Infertile
- ② Mentally retarded
- ③ Short life span
- ④ Very small head and mouth.

Super male $0^p=7$ when a maximum of 1 that is super male.

That is super male and these are known as criminal syndrome.

Super female \Rightarrow When a maximum of 0.5 that is super female.



Ans :- 7/10

Gene transfer

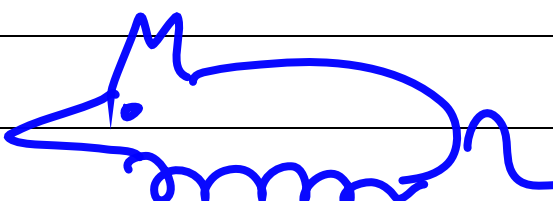
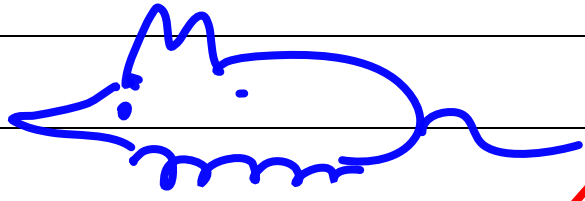
⇒ Gene transfer -- transformation :-

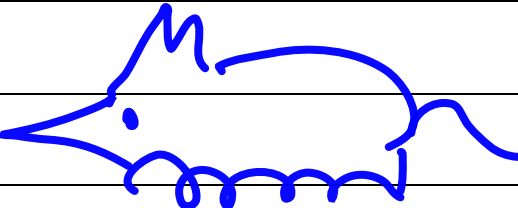
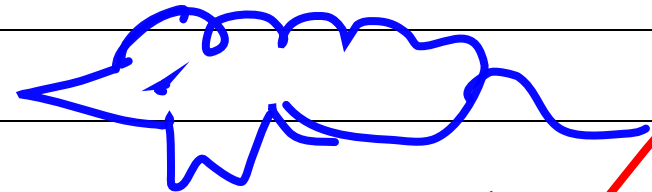
Griffith Experiment on the mice.

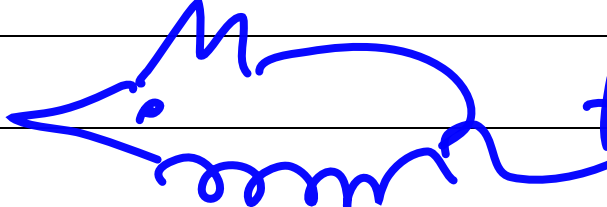
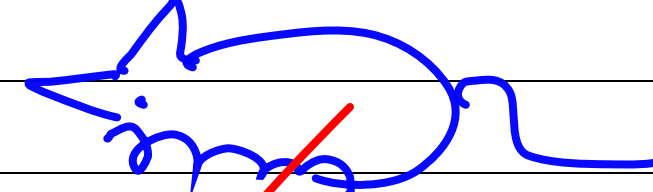
Griffith Experiment on the mice that is mice are died or not.

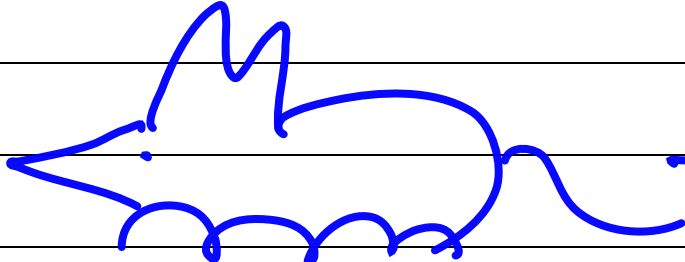
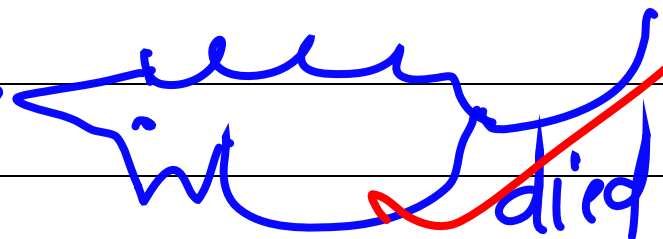
① When his rough-strain injected the mice and the result of no died.

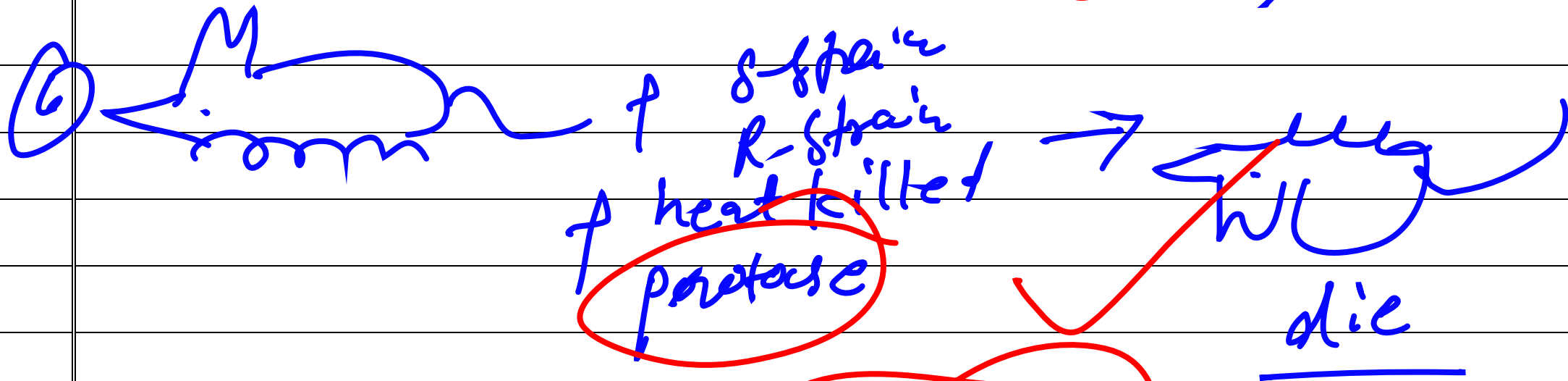
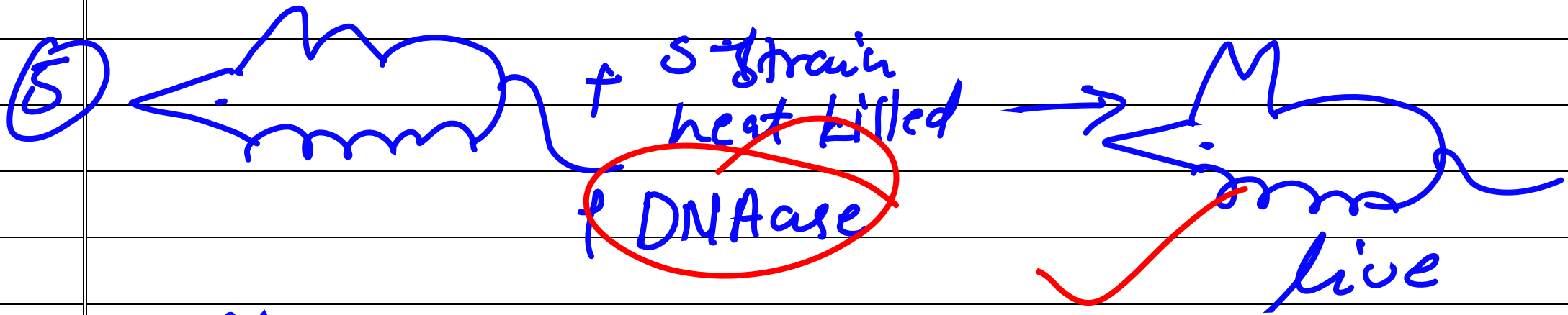
② And second is when his the smooth-strain injected with the suitable that result is live mice.

①  + R-strain → 
Live ✓

②  + S-strain → 
die ✓

③  + S-strain
heat killed → 
live ✓

④  + S-strain
+ R-strain
heat killed → 
died ✓



③ When the Griffith s-strained + Heat killed
on the mice and the
result is the mice is the
live.

④ When his the S-strain and R-strain + Heat killed on the mice then the result of mice is the die.

⑤ and when his S-strain and Heat killed and, DNA use on the mice and that the result mice is the live.

⑥ When the his S-Strain and R-strain, and Heat-killed, + protease on the mice and the result mice is the died.

Section \Rightarrow B

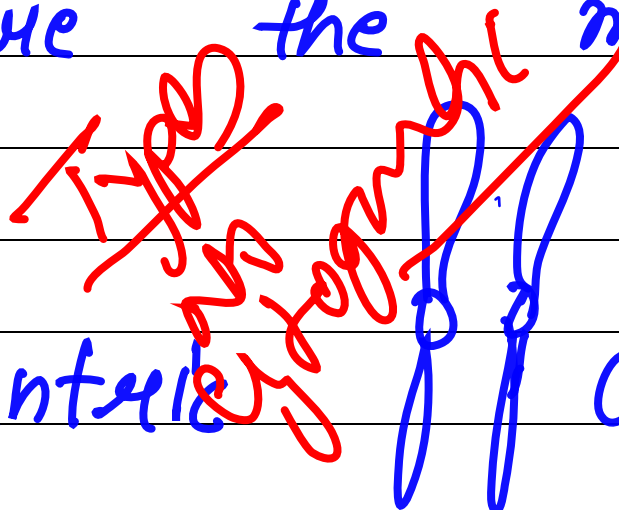
Ans = 6 :- Criminal syndrome :-

② Criminal syndrome are the super male syndrome. That is called Criminal syndrome. and when the maximum of the super male.

45f XXYY
 44PXY

Ans = 7 Cytogenetic Map :->

=> The study of chromosomes
 Chromosome are the very large small
 and thread-like structure.
 Chromosomes are the many types :-

- ① Metacentric
 - ② Telocentric
 - ③ Sub-Metacentric
- 
- Chromosomes

① Metacentric :-> These chromosomes are the two arms the chromosomes that is called Metacentric

