

भाग-1
33223355
M J 4 0 8 5 7 4 9

हस्ताक्षर
कक्ष निरीक्षक का नाम
परीक्षार्थी द्वारा सम्पूर्ण विवरण भर लिए गये है।
कक्ष निरीक्षक का नाम
परीक्षार्थी का पूरा नाम
Nikita Sharma



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 19-20 भाग/सेमेस्टर II
(Name of Exam) (Year 20.....) (Part / Semester)
विषय Zoology प्रश्न-पत्र/पाठ्यक्रम Genetics पेपर कोड नं. H-2063
(Subject) (Paper /Course) (Paper Code No.)
परीक्षा का दिन Thursday दिनांक 2 May 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	1	h	h							3
2	2	1									3
3	4	3									7
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											

132
Nikita
15

प्राप्तांक (शब्दों में)	अंकों में

जाँचकर्ता के हस्ताक्षर एवं तिथि

परीक्षक के हस्ताक्षर एवं तिथि



2018-

भाग-3

चौधरी चरण सिंह विश्वविद्यालय, मेरठ

R

Date Stamp to be affixed here

मसूदा 'गुप्त'

(परीक्षार्थी द्वारा भरा जाए)

परीक्षा का नाम M.Sc भाग/सेमेस्टर II
विषय Zoology
प्रश्न पत्र Genetics दिनांक 2 May

परीक्षार्थी का अनुक्रमांक (Roll Number)

उत्तर-पुस्तिका क्रमांक

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																			

KM-I-01-

कालेज कोड

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

018

(परीक्षार्थी की श्रेणी)

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

नामांकन संख्या (Enrollment Number)

M	J	4	0	8	5	7	4	9											
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

पेपर कोड

H - 2 0 6 3

परीक्षार्थी का पूरा नाम

NIKITA SHARMA

कक्ष निरीक्षक का नाम

Azmi

Sec-c

Detailed Answer Questions

11. Explain chromosomal disorders with the help of suitable examples.

Ans

Summary

Autosomal

Sex-linked

Autosomal disorder names

1 Down's syndrome

(2.) Edward syndrome

(3.) Patau Syndrome

(4.) Cœu du chat

Sex-linked disorder

Klinefelter's syndrome

Super male

Super female

Turner's syndrome

Chromosomal disorder

1. All syndrome are infertile except super-
male and superfemale.

2. All syndrome are mently retired except

turner syndrome.

3-

All Syndrome some same.

Autosomal syndrome

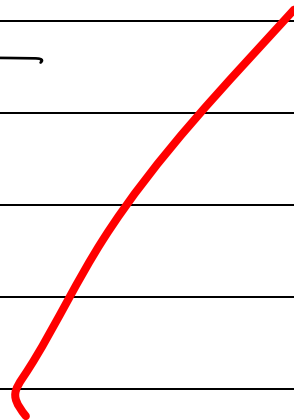
Autosomal syndrome are four types -

Down's syndrome

Edward syndrome

Patau syndrome

Cri-du-chat



Down's syndrome

Mentally retarded

Infertile

Eye-lid folds

Mongol Idiocy

Round eyes

Trisomy = 21

Edward syndrome

Mentally retarded

Infertile

Big Mouth

Trisomy - 18

Patau syndrome

1. Infertile
2. Mently retarded
3. Trisomy 13

Cri-du-chat

- Mently retarded
- Infertile
- Monosomy 5
-

Sex disorders

Sex-disorder are four types-

1. Klinefelter's syndrome

2. Super male

3. Super female

4. Turner's syndrome

Klinefelter's syndrome

• Infertile

• Big mouth / Head

• Mentally retarded

• Part of sex-disorder

•

Turner syndrome

- No mentally retarded
- Infertile
- Women
- Part of sex-disorder

Super-male

- Mentally retarded
- 'Y' chromosome found in super-male
- Size - Big
- Criminal syndrome

Super-female

- Mentally retarded
- 'X' chromosome found in super-female
- Size big
- Breast heavy
- looks simple women different

More
Chromosome⁸

10. Define numerical alteration of chromosome with the help of suitable examples.

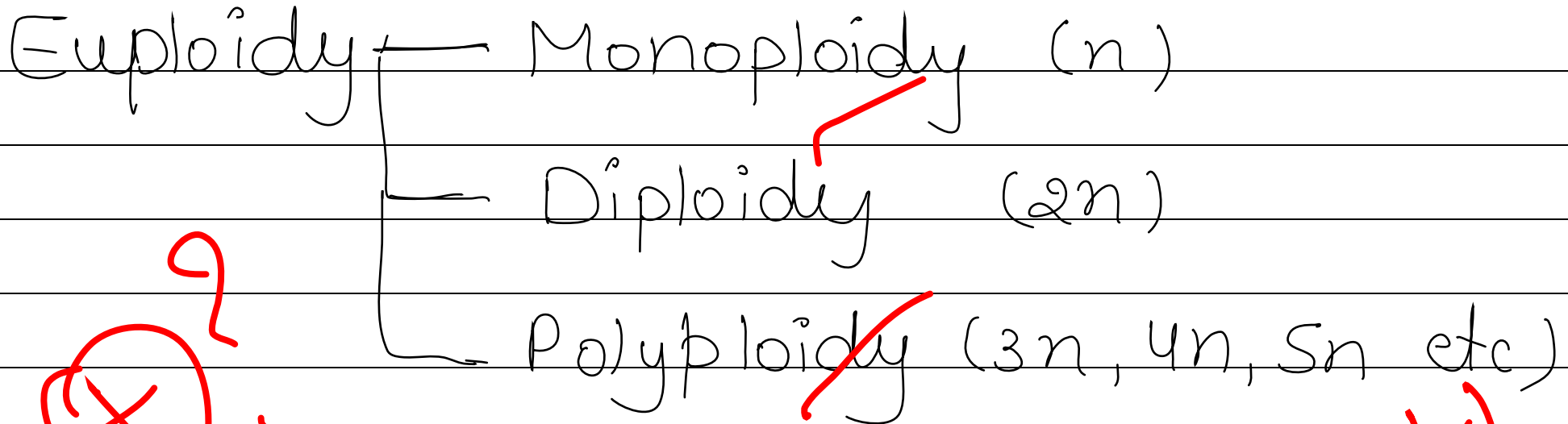
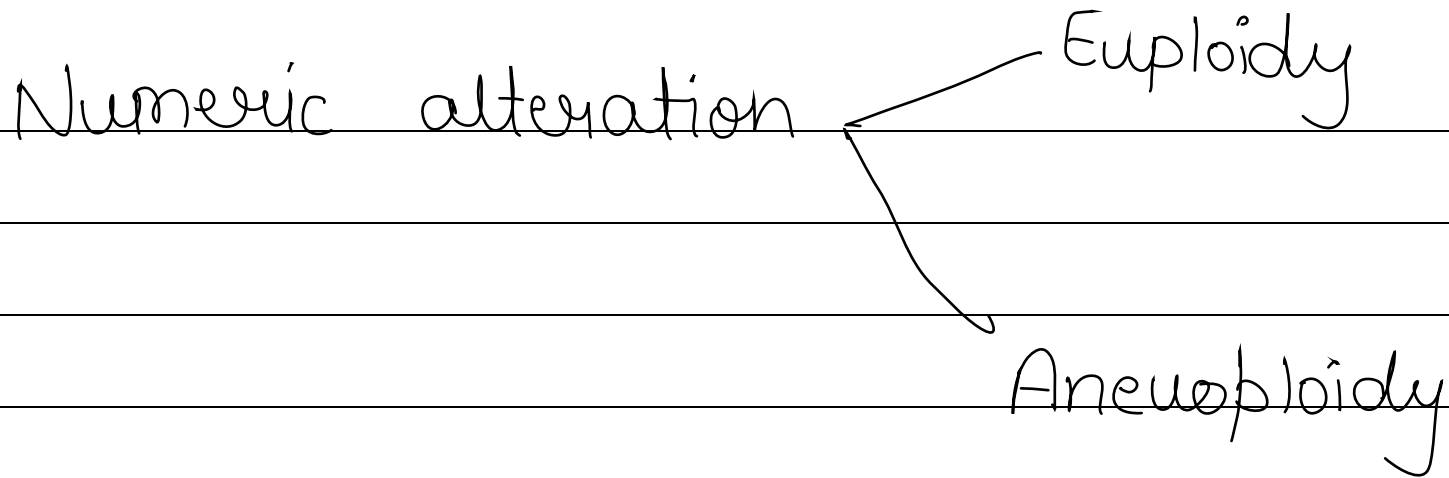
Ans

Summary

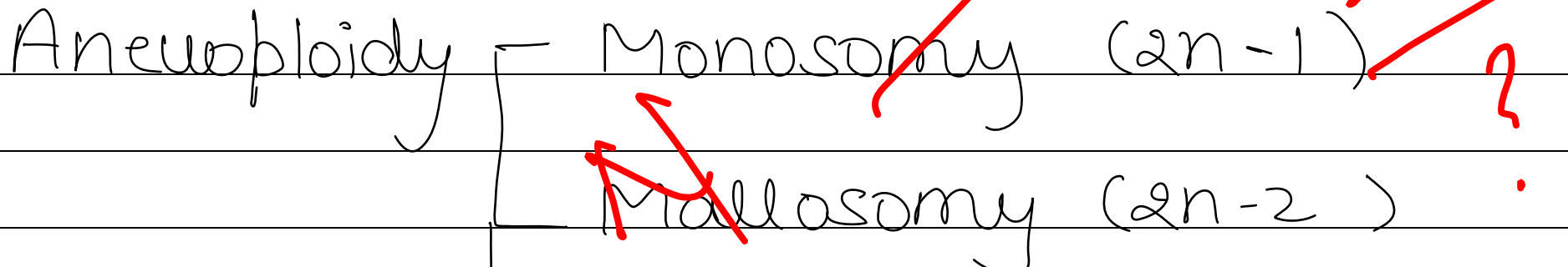
Chromosomal alteration

Numerical alteration

Structural alteration



(X) ?



Chromosomal alteration

Chromosomal alteration related to chromosome. chromosome are found in Animal, Mammals etc.

Chromosome are many type.

And Chromosomal alteration are two types -

1. Numeric alteration

2. Structural alteration

Numeric alteration are two types -

1. Euploidy

2. Aneuploidy

Euploidy - Euploidy part of numerical alteration.

Euploidy are three types -

Monoploidy ,

Diploidy

Polyploidy

1. Monoploidy - (n) found in
monoploidy. The
part of Euploidy.

2. Diploidy - ($2n$) found in Diploidy

Diploidy part of Euploidy.

13

3. Polyploidy - ($3n$, $4n$, $5n$ etc) found
in polyploidy. This is
also part of Euploidy.

Aneuploidy

Aneuploidy are four types -

(1.) Monosomy

(2.) Mallosomy

(3-) Trisomy

(4.) Tetrasomy

Monosomy — ~~(2n-1)~~ found in

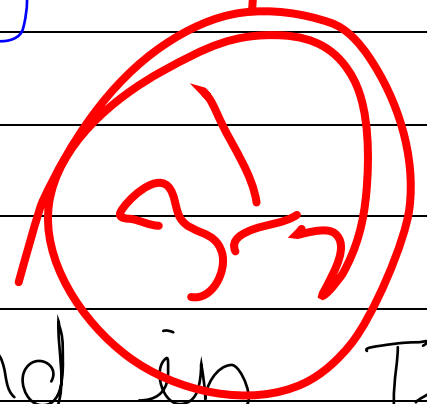
Monosomy • Monosomy

parts of Aneuploidy.

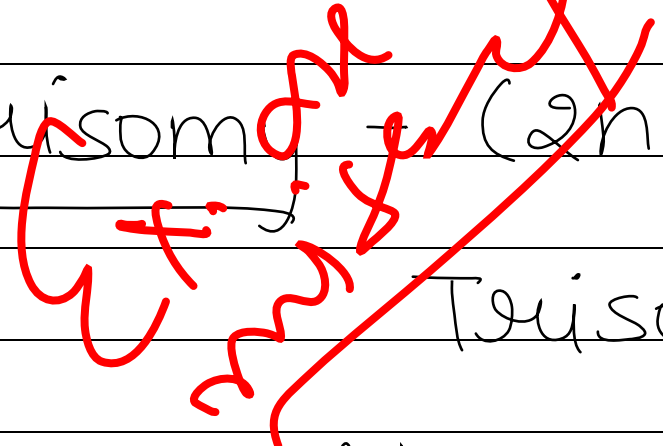
Mallosomy - $(2n-2)$ found in

~~Mallosomy, Mallosomy~~

part of ~~Aneuploidy~~



Trisomy - $(2n+1)$ found in Trisomy



~~Trisomy part of~~

~~Aneuploidy~~

Tetrasomy - $(2n+2)$ found in Tetrasomy

Tetrasomy also part aneuploid

Sec - A

Very short Answer Question

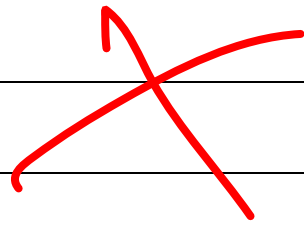
1. Why Mendel selected pea for his experiment?

Ans Mendel experiment selected pea many reason.

1. b'coz The pea plant is

growing small area.

(2.) Pea plant is better plant for experiment.



(3.) Dozed flower in pea plant.

2. Name initiation genetic code and amino acid code and by its AUG is a initiation code which responsible starting the protein chain.

(3.) Define Gene bank

Ans Gene bank - All Gene are found
in Gene bank and
Gene to related bank called
Gene bank.

Genes

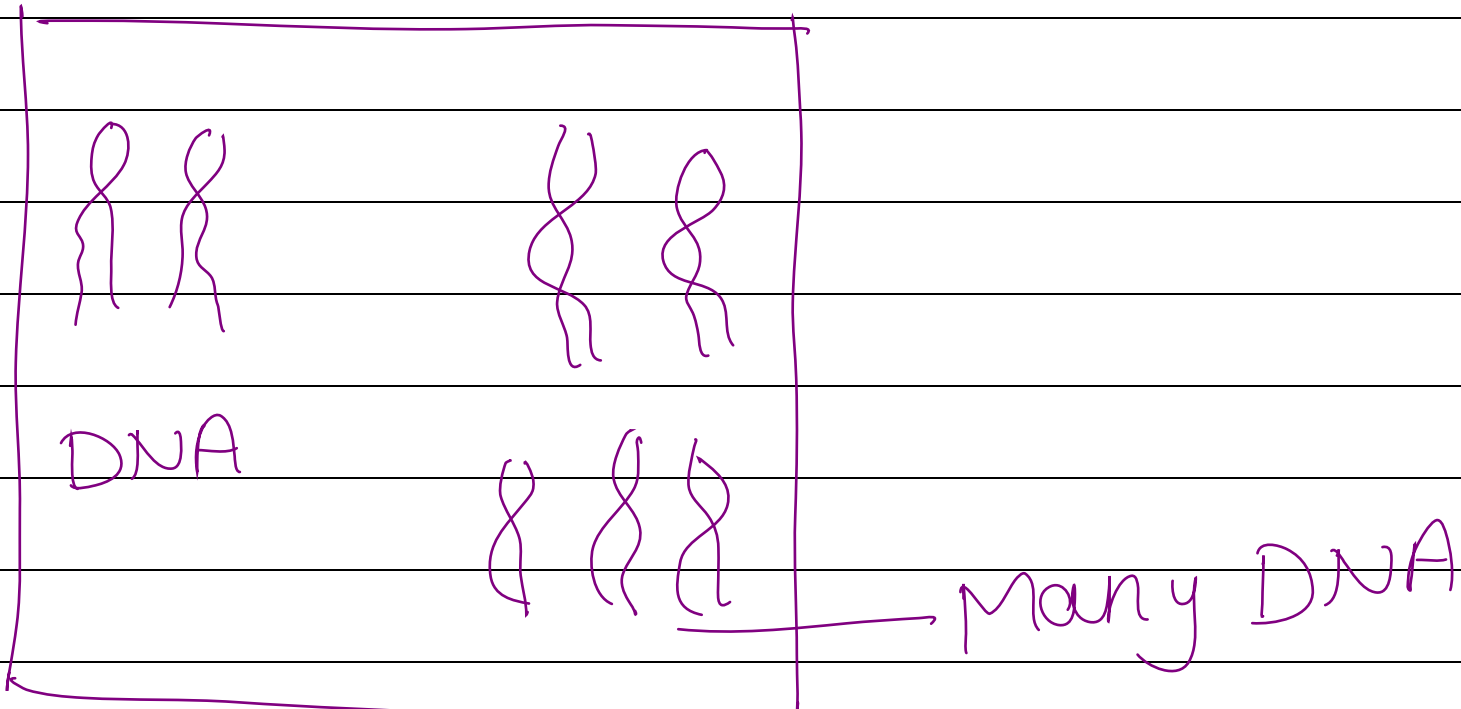
Q- full form of PCR

Ans Polymerase chain reaction

Discovered 1986 American by

Kary Mullis.

PCR



(5.) Define split gene

By split gene - Exon Intron are

found in chain

and Intron move and exon lived

that is called split gene.



Sec-B

Short Answer Question

Q. Polytene chromosome

Ans Polytene chromosome - EG Bilibic 1881

discovered the

polytene chromosome



Polytene Chromosome

Polytene Chromosome the sequence of DNA.

Polytene chromosome discovered

by E. G. Billie in 1881.

Polytene chromosome ~~is~~ a different chromosome

Chromosome are different types

and different name.

All chromosome are very important.

8. In - borne disorders

Ans In - borne disorders - Sickle cell
anemia

are very important disorder.

This disorders Sickle cell anemia

become before birth So it

is called In - borne disorders.

