

V P & R P T P SCIENCE COLLEGE

5TH SEM INTERNAL TEST 2013

US 05 CZOO 05

TIME: 1.00-2.00 PM

DATE: 05/01/2013

MARKS: 30

Q-1 MULTIPLE CHOICE QUESTION:

[06]

1. MONOHYBRID IS AN INTERACTION BETWEEN.....CHARACTERS
A, SINGLE B, TWO C, THREE D, ALL
2. 1:2:1 IS A MODIFICATION OF.....CROSS
A, DIHYBRID B, MONOHYBRID C, LETHAL GENE D, NONE
3. ANTIGENS ARE NOT PRESENT IN BLOOD GROUP
A, O B, AB C, A D, B
4. FUNCTIONS OF MITOCHONDRIAL DNA TO SYNTHESIS
A, PROTEIN B, ENZYMES C, ATP D, COENZYMES
5. CHROMOSOMES REGULATE SEX IN HUMAN ARE
A, 21ST B, 22ND C, 23RD D, NONE
6. GENERALLY CROSSING OVER TAKES PLACE DURING
A, PROPHASE B, METAPHSE C, ANAPHASE D, TELOPHASE

Q-2 ANSWER IN SHORT [ANY THREE]

[06]

1. WRITE ABOUT MENDEL
2. WRITE ABOUT 3:1 RATIO
3. WHAT IS BACK CROSS
4. WRITE ABOUT CHLOROPLAST DNA
5. WRITE ABOUT CHROMOSOMES OF DROSOPHILA
6. WRITE ABOUT SINGLE CROSSING OVER



- Q-3 A, WHAT IS CO DOMINANCE? EXPLAIN
B, WHAT ARE LETHAL GENES? EXPLAIN

[03]
[03]

OR

- Q-3 A, EXPLAIN 3:6:3:1:2:1 RATIO
B, EXPLAIN LAW OF INDEPENDENT ASSORTMENT

[03]
[03]

Q-4 WHAT IS EPISTASIS? EXPLAIN BY GIVING PROPER EXAMPLE

[06]

Q-4 EXPLAIN MULTIPLE ALLELES IN ASPECT OF BLOOD GROUP

[06]

- Q-5 A, EXPLAIN SEX DETERMINATION IN HUMAN
B, EXPLAIN Y LINKED GENES

[03]
[03]

OR

- Q-5 A, EXPLAIN THEORIES OF CROSSING OVER
B, WHAT IS GENE LINKAGE? EXPLAIN

[03]
[03]