Date: 2024

LGS GROUP OF COLLEGES

Biology — WEEKLY TEST — XII

TEST# WK-8

Subject: Biology	Name:……	Roll No:
Time: 35 mins	Objective	Marks =15

SECTION-I OBJECTIVE TYPE

Note: Four possible answer A, B, C and D to each question are given. The choice which you think is correct, fill the circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question. (5 × 1 = 5)

Q1. Select the right option.

1) Which of the following cross is a test cross?

A. Unknown × AA B. Unknown × Aa

C. Unknown × aa D. Unknown × unknown

2) A recessive gene can be expressed if the genotype is:

A. Homozygous recessive B. Homozygous dominant

C. Heterozygous D. both 'B' and 'C'

3) If an organism with the genotype Ww is crossed with a Ww organism, what would be proportion of offs pong that would be heterozygous?

A. 1/4 B. 1/2

C. 3/4 D. all would be heterozygous

4) How many gene pairs contribute to wheat grain

A. One B. Two

C. Three D. Four

5) Bombay phenotype is an example of:

A. Pleiotropy B. Dominance

C. Probability D. Epistasis

SECTION-II SUBJECTIVE TYPE

Q2. Write short answers. **(2 x 3 = 6)**

i) Differentiate between parental and non-parental combinations during crossing over.

ii) Differentiate between epistasis and pleiotropy.

iii) What are polygenic traits and polygenes?

SECTION – II (PART–II)

Note: Attempt one question. **(4 × 1 = 4)**

Q3. Explain erythroblastosis foetalis in detail.