CHAPTER 5 genetics Total Marks: 30

OPEN STUDENT FOUNDATION STD 12TH Biology PRACTICE SHEET DAY 2

		[Section A				
•	Choose correct answ	er from the given opti	ons. [Each carries	1 Mark]		[8]	
1.	One of the following is correct statement.						
	(A) Dominant trait is expressed in homozygous condition.						
	(B) Dominant trait cannot be expressed in heterozygous condition						
	(C) Recessive trait ca	in only be expressed i	in homozygous co	ndition			
	(D) Recessive trait ca	an always expressed in	n heterozygous co	ndition			
2.	In Mirabilis jalapa r	ed and white flowers	are crossed, what	t can be pl	nenotype and genotype of	fF ₂	
	(A) $1:2:1$ and $3:$	1 (B) 3 : 1 and 1	: 2 : 1 (C) 1 :	2:1 and 1	: 2 : 1 (D) 9 : 3 : 4 and 3	: 1	
3.	Dihybrid cross expla	ins					
	(A) law of dominanc	e	(B) puri	ty of gamet	es		
	(C) independent asso	ortment	(D) law	of segregati	ion		
4.	A blue fowl was obt	ained after crossing b	etween a white a	<mark>nd b</mark> lack fo ^r	wl. Than the ratio of their	r F ₂	
	generation will be	-					
_	(A) 3 : 1	(B) 9:2	(C) 1 :	2:1	(D) 13 : 3		
5.	In Lathyrus odoratus the crossing over between two white and purple is case of						
(A) co-dominance (B) incomplete dominance (D) complementary gene action					gene action		
6.	The work of Mendel	was published in yes	r (2) 001	.p.o	Serie dettori		
	(A) 1900	(B) 1901	(C) 1884	4	(D) 1866		
7.	The commonly used	animal in genetics is					
	(A) echerichia coli	(B) drosophila	(C) neu	rospora	(D) chlorella		
8.	Three children in a f	family have blood type	es O, AB and B re	spe <mark>ctively.</mark> W	What as the genotypes of t	heir	
	parents ?						
	(A) I ^A I ^B and ii	(B) I_i^A and I_i^B	(C) I ^A I ^A	^A and I ^B _i	(D) I ^B I ^B and I ^A I ^A		
		[Section B				
•	Write the answer of t	he following question	s. [Each carries 2]	Marks]		[6]	
1.	Write short note on pleiotropy.						
2.	Give scientific reason : Thalassemia and haemophilia categorised as Mendelian disorders.						
3.	Give scientific reason : The human male never passes on the gene for haemophilia to his son.						
		Γ	Section C				
•	Write the answer of t	- he following question	s. [Each carries 3]	Marks]		[12]	
4.	Describe incomplete dominance.						
5.	Explain - Co-dominance in relation to human blood group.						
6.	Why are thalassemia	and haemophilia ca	tegorised as Meno	lelian disoro	lers ? Write the symptoms	s of	
	these diseases. Expla	in their pattern of inh	neritance in huma	ns.	J I ⁻		

Pradip sir

7.	Write short note on sickle-cell anaemia.	
	Section D	
•	Write the answer of the following questions. [Each carries 4 Marks]	[4]
8.	Describe linkage and recombination in detail.	
	R	

Pradip sir

OPEN STUDENT FOUNDATION STD 12TH Biology PRACTICE SHEET DAY 2

CHAPTER 5 genetics Total Marks: 30

Date : 20/02/24 Time: 1 hr

Section [A] : 1 Mark MCQ						
No	Ans	Chap	Sec	Que	Universal_Queld	
1.	С	Chap 4	S9	2	QP23P11B1214_P1C4S9Q2	
2.	С	Chap 4	S9	1	QP23P11B1214_P1C4S9Q1	
3.	С	Chap 4	S9	4	QP23P11B1214_P1C4S9Q4	
4.	А	Chap 4	S9	5	QP23P11B1214_P1C4S9Q5	
5.	А	Chap 4	S9	7	QP23P11B1214_P1C4S9Q7	
6.	А	Chap 4	S9	8	QP23P11B1214_P1C4S9Q8	
7.	В	Chap 4	S9	13	QP23P11B1214_P1C4S9Q13	
8.	В	Chap 4	S9	12	QP23P11B1214_P1C4S9Q12	

Section [B] : 2 Marks Questions							
No	Ans	Chap	Sec	Que	Universal_Queld		
1.	-	Chap 4	S1	19	QP23P11B1214_P1C4S1Q19		
2.	-	Chap 4	S2	9	QP23P11B1214_P1C4S2Q9		
3.	-	Chap 4	S2	10	QP23P11B1214_P1C4S2Q10		

Section [C] : 3 Marks Questions							
No	Ans	Chap	Sec	Que	Universal_Queld		
4.	-	Chap 4	S1	8	QP23P11B1214_P1C4S1Q8		
5.	-	Chap 4	S1	10R2	QP23P11B1214_P1C4S1Q10R2		
6.	-	Chap 4	S1	29	QP23P11B1214_P1C4S1Q29		
7.	-	Chap 4	S1	27.4	QP23P11B1214_P1C4S1Q27.4		

Section [D] : 4 Marks Questions							
No	Ans	Chap	Sec	Que	Universal_Queld		
8.	-	Chap 4	S1	17	QP23P11B1214_P1C4S1Q17		