5	SARALA BIRLA GROUP OF SCHOOLS SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL					
B K BIRLA FOR EDUC	त भन्दु CENTRE CATION	PRE-M	ID TERM EXAM	2024-25	INDIAN PUBLIC SCHOOLS' CONFERENCE	
(Sarala Birla Grou	of Schools)	BIOL	OGY (044) Marking S	cheme		
Class:	XII				Marks:25	
			Section A			
1.	d) 7				1	
2.	a) males and fer	nales, respective	ely		1	
3.	c) A is true but R	t is false.			1	
			Section B			
4.	a) XX <sup>h</sup> X XY				1+1	
	Son- X <sup>n</sup> Y , Dau	ighter- XX <sup>n</sup>				
	h) Sex-linked rec	A" I cessive disorder				
5.	T+C= 240+260=	500			1+1	
	Chargaff's base pair rule.					
	In a double stran	ided DNA, The ra	atios between Adenin	e and Thymine and Gu	anine	
6	a) Dominance- T	1+1				
0.	Recessive- The	trait that can not	be expressed.			
	b) Homozygous-	Similar alleles				
7	Heterozygous- D	or 0				
1.	The negatively c	lei. ∠ 1e				
	octamer to form	e 6.4 a). A typical nucle	osome			
	contains 200 bp	contains 200 bp of DNA helix.				
8.	A Tall plant with	yellow seeds- It	Yy X ttyy	Tho	1+1	
	Tall Yellow	Dwarf Yellow	Dwarf green	Tall green		
		Dwarr renew	Dwan groon			
•			Section C			
9.	RR X rr- Rr	6			1+1+1	
	Incomplete inher	s. ritance.				
10.	The chromosom	1+1+1				
	excess or abnor					
	Failure of segreg	pation of chromat	tids during cell divisio	n cycle results in the ga	ain or	
	Ex- Down's svnc	frome	aneuploidy.			
	Klinefelter's Syn					
	Turner's Syndrome					
11.	a single gene can exhibit multiple phenotypic expression. Such a gene is called a					
	of a gene on me	es. An				
	example of this i					

**BK BIRLA CENTRE FOR EDUCATION** 

phenotypic expression characterised by mental retardation and a reduction in hair and skin pigmentation.

12.

kin pigmentation.						
S strain $\longrightarrow$ Inject into mice	$\longrightarrow$ Mice die	1+1+1				
R strain → Inject into mice	→ Mice live					

Griffith was able to kill bacteria by heating them. He observed that heat-killed S strain bacteria injected into mice did not kill them. When he

S strain	→ Inject into mice	$\longrightarrow$	Mice live
(heat-killed)			
S strain (heat-killed) + R strain	→ Inject into mice	$\longrightarrow$	Mice die
(live)			