DPP DAILY PRACTICE PROBLEMS							
Cl Da	ass : XIIth ate :	Subj DPP N	ect : BIOLOGY o. : 3				
<b>Topic :- Principles Of Inheritance &amp; Variation</b>							
1.	The proportion of plants that were dwarf and tall in $F_2$ - generation of oMendel experiment						
	a) $\frac{1}{4}$ th and $\frac{3}{4}$ th	b) $\frac{3}{4}$ th and $\frac{1}{4}$ th	c) $\frac{2}{3}$ rd and $\frac{1}{3}$ rd	d) $\frac{1}{3}$ rd and $\frac{4}{3}$ rd			
2.	Night blindness is a) Genetic disease c) Generally found in mal	le	b) Nutritional deficien d) Generally found in f	icy disease female			
3.	Two genes R and Y are located very close on the chromosomal linkage map of maize plant. When RRYYand rryy genotypes are hybridized, then $F_2$ -segregation will showa) $1:2:1$ b) $3:1$ c) $9:3:3:1$ d) $1:1:1$						
4.	Who argued that pairing they carried? a) Sutton	and separation of chromo	c) Both (a) and (b)	segregation of a pair of factor d) Morgan			
5.	Sex chromosomes of male a) Homozygous	e <mark>are</mark> b) Heterozygous	c) Hemizygous	d) Autosomes			
6.	Trisomy of which chromo a) 15 <sup>th</sup>	osome is involved in Down b) 21 <sup>st</sup>	n's syndrome? c) 20 <sup>th</sup>	d) 19 <sup>th</sup>			
7.	Which of the following symbols are used for representing chromosome of birds?a) ZZ-ZWb) XX-XYc) XO-XXd) ZZ-WW						
8.	Sudden and heritable cha a) Mutation	inge in a character of an o b) Heterosis	rganism is called c) Inbreeding	d) Selection			
9.	Heterozygous purple flower is crossed with recessive white flower. The progeny has the ratioa) All purpleb) All whitec) 50% purple, 50% whited) 75% purple, 25% white						
10.	The Mendel crossed true dominant and recessive c a) F <sub>1</sub>	breeding tall and dwarf p haracter was dwarf. The b) F <sub>2</sub>	lant varieties in his exper recessive character was a c) F <sub>3</sub>	riment. The tall character was ppeared in d) F <sub>2</sub> and F <sub>3</sub>			

11.	11. Night blindness can be corrected by giving vitaminA but colour blindness can't be curedB disease.					
	Choose the correct option f	for A and B				
	a) A-A; B-genetic	b) A-B; B-autosomal	c) A-C; B-non-genetic	d) A-D; B-genetic		
12.	Heredity is					
	a) Transmission of characters		b) Mixing of characters	b) Mixing of characters		
	c) Blending of inheritance		d) Deleting of characters			
13.	Which of these statements about Huntington's disease is true?					
	a) Genetic tests to detect the presence of the allele responsible for Huntington's disease do not exist at this time					
	b) The onset of Huntington	rs of age				
	d) Huntington's disease is caused by the expression of a recessive allele					
14.	Centromere is required for					
	a) Transcription		b) Crossing over			
	c) Cytoplasmic cleavage		d) Movement of chromo	osomes towards poles		
15.	Which of the following condition in humans is correctly matched with its chromosomal					
	abnormality/linkage?					
	a) Klinefelter's syndrome	-44 autosomes + XX	(Y b) Colour blindness	-Y-linked		
	c) Erythrobiastosis loetans	-A- IIIKed	a) Down's syndrome	- 44 autosomes+ XO		
16.	Rrrr progeny : Red (dominant) flowered heterozygous crossed with white flower					
	a) $350 \rightarrow \text{red} : 350 \rightarrow \text{white}$		$h$ 450 $\rightarrow$ red : 250 $\rightarrow$ v	h) $450 \rightarrow \text{red} : 250 \rightarrow \text{white}$		
			d) None of these	d) None of these		
	c) $380 \rightarrow \text{red} : 250 \rightarrow \text{white}$		uj Nolle of tilese			
17.	A hereditary disease which is never passed on form father to son is					
	a) X- chromosomal linked disease		b) Autosomal linked dis	b) Autosomal linked disease		
	c) Y- chromosomal linked disease		d) None of the above	d) None of the above		
18.	A man with blood group-B marries a woman with blood-A and their first child is having blood group-B.					
	What is the genotype of child?					
	a) I <sup>a</sup> I <sup>b</sup>	b) <sup>Ialo</sup>	c) <sup>IbIo</sup>	d) I <sup>bIb</sup>		
	-	-	,	,		
10	Linked gene are present or					
19.	a) Same chromosome b) Different chromosome					
	c) Heterologous chromosome		d) Paired chromosome	d) Paired chromosome		
	cj neterologous chroniosonne		a, i an ca chi oniosonic	uj i an cu chi oniosonic		

## 20. The structure that become double in synthesis phase of cell division is/area) RNAb) Centriolec) DNA

d) None of these

