Pleiotropy

E.

→ VARIATION & GENETICS

Chapter # 22

1.	PRACTICALCENTRE.BLOGSPOT.CO Mendel's hereditary factor "genes" are located on:						
	Α.	Mitochondria	B.	Nuclear membrane			
	C. √	Chromosomes	D.	Lysosomes			
	E.	Cytoplasmic membrane					
2.	Basic units of inheritance are:						
	A.	Chromosomes	B.	Nucleus			
	C.	Nucleolus	D.	Nuclear membrane			
	Ε. √	Genes					
3.	The total aggregate of genes in a population at any one time is called the populations						
	A. √	Gene pool	B.	Gene target			
	C.	Gene cycle	D.	Gene square			
	E.	Gene aggregation					
4.	Genes that occupies a specific position called:						
	A.	Alleles	B. √	Locus			
	C.	Gene pool	D.	Linkage			
	E.	Synapsis	3				
5.	"Law	"Law of Dominance" was derived by:					
	A.	T. H. Morgan	Β. √	Gregor Johann Mendell			
	C.	Rudolf Virchow	D.	Bateson			
	E.	Lamarck					
6.	The phenotypic ratio of plants with dominant character to those with recession						
	char	acter is always close to:					
	A.	1:2	В.	2:1			
	C.	1:1	D. √	3:1			
	5	1:3					
7.	Separation of genes is called.						
	A.	Assortment	В.	Dominance			
K	C. √	Segregation	D.	Inheritance			
	E.	Gene pool					
8.	"Law of purity of gametes" is:						
	A.	Law of Dominance	B.	Law of Recessiveness			
	C.	Law of Independent Assortment	D. V	Law of Segregation			

9.	"Each gamete contains only one allele of a particular character and is said to be pure" this						
	A.	Plelotropy	В.	Epistasis			
	C. E. √	Law of Independent Assortment Law of Segregation	D.	Law of Dominance			
10.	"The	"The members of one pair of genes segregate independently of the other pairs", this is:					
	A. √	Law of independent Assortment	В.	Pleiotropy			
	C. E.	Law of Segregation Epistasis	D.	Law of Dominance			
11.	Mendel perform his famous experiments of heredity on:						
	A.	Maize	В.	Castor plant			
	C. √	Garden pea	D.	Mirabilis plant			
	E.	Bean plants					
12.	Cross fertilization of a phenotypically dominant individual with a homozygous recessive individual is:						
	A.	Incomplete dominance	B. V	Test cross			
	C.	Co-dominance	D.	Epistasis			
	E.	All are incorrect	11				
13.	Incor	Incomplete dominance is also known as:					
	A.	Primary Inheritance	В.	Secondary Inheritance			
	C. √	Intermediate inheritance	D.	Dependent Inheritance			
	E.	Independent inheritance					
14.	"None of the two genes is dominant over the other", this phenomenon is:						
	A.	Test Cross	В. √	Co-dominance			
	C.	Incomplete dominance	D.	Epistasis			
	E.	Pleiotropy					
15.	Both alleles of a contrasting character are dominant and express themselves in heterozygous individual neither masking the effect of one another, this is:						
		Test Cross	B.	Co dominance			
	A. C. √	Phenomenon of Inheritance	D.	Law of Segregation			
S	E.	Law of Independent Assortment	υ.	Law of Segregation			
16.	A ger	ne for a trait having three or more all	elic for	rms is called:			
-	Α.	Single allele	В.	Unilocular alleles			
	C. √	Multiple alleles	D.	Double alleles			
	E.	Recessive alleles					
17.	A well known example of multiple alleles in human beings is that of the:						
	A.	Skin colour	B.	Height			
	C.	Flair texture	D. √	Blood groups			

E.

Rhesus factor

18.	Cross	s appearance of intermediate chara	cter is kr	nown as:			
	A.	Co dominance	B. √	Incomplete dominance			
	C.	Epistasis	D.	Test cross			
	E.	Pleiotropy					
19.	Blood group, also known as "Universal Donor" is:						
	A.	Blood group A ⁺	B. √	Blood group O ⁺			
	C.	Blood group B	D.	Blood group AB ⁺			
	E.	Blood group B*					
20.	Blood group also known as "Universal Recipient" is:						
	A.	Blood group A ⁺	В.	Blood group O*			
	C.	Blood group B	D.	Blood group AB*			
	Ε. √	Blood group B*					
21.	Each human being possesses pairs of chromosomcs.						
	A.	21	В.	22			
	C. √	23	D.	24			
	E.	26					
22.	"Rh"	stands for:	44				
	A. √	Rhesus Factor	В.	Rhesus Gene			
	C.	Rhesus Pool	D.	Rhesus Heamatin			
	E.	Rhesus Type					
23.	Whe	n a colour blind male marries a nor	mal fema	ale:			
	Α.						
	B. √						
	C.	_					
	D.						
	E.	E. All the sons and daughters will be normal.					
24.	In Erythroblastosis foctalis:						
	A.	and the second s					
	Β. √	Father is R ^h positive and mother R ^h negative					
	C.	Mother and father are both R ^h positive but grand parents are R ^h negative					
	C.	Mother and father both are R ^h negative					
1	E.	Mother and father both are Rh pos	itive				
25.	Supp	ressive influence of any genetic fac	tor on ar	nother that is not its allele is:			
		Epistasis	B.	Co dominance			

D. Test Cross

C.

E.

Incomplete Dominance

Pleiotropy

26.	Traits that are controlled by two or more than two separate pairs of genes, which manifest themselves in an additive fashion to yield continuously varying traits, this is:				
	A.	Epistasis	B.	Pleiotropy	
	C. √	Polygenic Inheritance	D.	Intermediate Inhertiance	
	E.	Co-dominance			
21.	The multiple effects of a single gene or allele are termed:				
	A.	Epistasis	Β. √	Pleiotropy	
	C.	Co dominance	D.	Test Cross	
	E.	Polygenic Inheritance			
28.	pairs of chromosomes found in Drosophila:				
	A.	Two	B.	Three	
	C. √	Four	D.	Five	
	E.	Six			
				2	
29.	The tendency of genes in a chromosome to remain together is called:				
	A. √	Linkage	В.	Synapsis	
	C.	Pleiotropy	D.	Crossing over	
	E.	Hybridization			
30.	During meiosis, the homologous chromosomes come together and form pairs, a process called:				
	A.	Linkage	В. √	Synapsis	
	C.	Pleiotropy	D.	Corssing over	
	E.	Epistasis		•	
31.	Mutual exchange of segments of chromosomes is called:				
	A.	Linkage	B.	Synapsis	
	C.	Pleiotropy	D.	Linking over	
	Ε. √	Crossing over			
32.	Number of chromosomes present in Male Grasshopper:				
	A.	16	В.	20	
	c.	V23	D.	24	
	E.	26			
33.	Number of Autosomes present in humans:				
	Α.	38	B.	40	
	C.	42	D. √	44	
	E.	46			
34.	The h	uman female possesses a genotype o	f:		

B.

D.

40 + XX

43 + XX

A. 40 + XY

C. 42 + XX

E. √ 44 + XY

35.	The human n	nale possesses	a genotype of:

40 + XYΑ.

B. 40 + XX

C. √ 44 + XY

42 + XYD.

46 + XY E.

Any genetic trait which is transmitted through sex chromosomes is called: 36.

- Single Trait Inheritance
- B. √ Sex Linked Inheritance
- C. Intermediate Inheritance
- Inheritance of Two Traits D.
- E. Autosomal Inheritance

37. Sex determination in Drosophila was done by:

T. H. Morgan

Rudolf Virchow

C. Bateson D. Gregor John Mendel

E. Matthew Mesclson

Acquiring of information about the phenotypes of family members to infer the genetic 38. nature of a trait from the pattern of its inheritance is:

A. Maternal analysis

Paternal analysis В.

C. √ Pedigree analysis

D. Chromosomal analysis

E. Genes analysis

39. Persons suffering from colour blindness hae difficulty in distinguishing:

A. Blue from green В. Red from blue

C. Yellow from Orange

Red from Yellow D.

Red from Green

Regarding colour blindness, "when a normal male marries carrier female", which is the 40. correct statement?

- All daughter will be colour blind A.
- B. All sons will be colour blind
- All daughters are normal but carriers D. V Half of the sons will be colour blind C.
- Half of the daughter will be colour blind E.

41. Diabetes Mellitus is caused by a deficiency of:

Insulin A.V

В. Glucagon

30

Thyroid C.

D. Aldosterone

Cortisone

Type II Diabetes Mellitus usually occurs after about age:

20 A.

B.

C. √ 40 D. 50

E. 60

43. The result obtained from mono hybrid cross is spoken as

Α. Test Cross

- B. Intermediate Inhentance
- C. Inheritance of two traits
- D. √ Single trait inheritance

Codominance

44. When red-eyed female (XRXR) is cross with white cyed male (XY) the F2 generation shows red-eyed & white-eyed, this is ratio of:

A. 4:1

B. 1:1

C. 1:3

D. 2:1

E. √ 3:1

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