

Class : XIIth Subject : BIOLOGY Date : DPP No. : 10

	a a constant of the constant o		neritance & Vari	ation		
1.	A haemophilic woman marries a normal man, then					
	a) All the children will be normal			b) All the sons will be haemophilic		
	c) All the girls will be haemophilic		d) Half girls will be ha	d) Half girls will be haemophilic		
2.	Disorder inherited as Mendel's law of inheritance called					
	a) Mendelian disorder		b) Chromosomal diso	b) Chromosomal disorder		
	c) Maternal inheritance		d) Polygenic inheritar	d) Polygenic inheritance		
3.	The term 'gene' was coined by					
	a) Avery	b) Bateson	c) Johanssen	d) Mendel		
4.	The phenotypic ratio in the $F_2$ gereration of dihybrid cross, is					
	a) 9:3:3:1		b) 1:2:2:4:1:2:1	: 2:1		
	c) 7:1:1:7		d) 12:8:4			
5.	Chromosome is made up	of				
٥.	a) DNA +pectin	b) RNA +DNA	c) DNA +histone	d) Only histone		
	a) Divir i pecuni	b) IIIII   DIIII	c) Divir i motorie	ay only installe		
6.	Select the incorrect statemant from the following.					
	a) Linkage is an exception to the principle of		_	b) Galactosemia is an inborn error of metabolism		
	independent assortment in heredity					
	c) Small population size r	esult in random geneti	c d) Baldness is a sex-li	d) Baldness is a sex-limited trait		
	drift in a population					
7.	A pure tall and a pure dwarf plant were crossed to produced offsprings. Offsprings were self crossed, then					
	find out the ratio between true breeding tall to true breeding dwarf?					
	a) 1:1	b) 3:1	c) 2:1	d) 1:2:1		
8.	Exposure of X-rays enhances the frequency of					
	a) Linkage		, .	b) Crossing over		
	c) Pairing of chromosome		d) Segregation			
9.	A self-fertilizing trihybrid plant forms					

	a) 8 different gametes and 64 different zygotes		b) 4 different game	b) 4 different gametes and 16 different zygotes		
	c) 8 different gametes and 16 different zygotes		d) 8 different game	d) 8 different gametes and 32 different zygotes		
10.	Genotype is the  a) Genetic constitution  a) Trait expressed			<ul><li>b) Genetic constitution of the phenotype</li><li>d) Expressed genes</li></ul>		
	c) Trait expressed		u) Expressed genes	u) Expressed genes		
11.	Failure of cytokinesis afterA stage of cell division results in an increase in a whole set of chromosomes in an organism calledB					
	a) A-prophase, B-polyploid		h) A-metanhase B-	b) A-metaphase, B-polyploidy		
		=				
	c) A-anaphase, B-polyploidy		а) A-teiopnase, в-р	d) A-telophase, B-polyploidy		
12.	In previous question find out total seeds (plants) having round seed texture					
	a) 12	b) 10	c) 9	d) 11		
13.	The ratio 1:1:1:1 is obtained from a cross between the parents					
	a) RRYY × rryy	b) RRYY × rryy	c) RRYY × Rryy	d) RrYy × rryy		
14.	Which of the following terms represent a pair of contrasting characters?					
	a) Homozygous	b) Heterozygous	c) Allelomorphs	d) Codominant genes		
15.	Harmful mutation does not get eliminated from the gene pool because they are mainly a) Dominant, which have beneficial effect on population and carried by heterozygous individuals b) Dominant, which have beneficial effect on population and carried by homozygous individuals c) Carried from one generation to another generation through autosomal chromosomes d) They show genetic drift					
16.	Incomplete linkage isA Complete linkage isB Choose correct option for A and B					
	a) A-common, B-rare			b) A-rare, B-common		
	c) A-impracticle, B-practicle		d) A-practicle, B-im	d) A-practicle, B-impracticle		
17.	Mendelism was rediscovered by I. Morgan II. De Vries III. Correns IV. Tschermark Choose the correct option					
	a) I, III and IV	b) I, II, III and IV	c) II, III and IV	d) I, II and III		
18.	In gynandromorphs, a) Some cells of body contain XX and some cells with genotype XY b) All cells have XX genotype					

- c) All cells have XY genotype
- d) All cells with genotype XXY
- 19. Example of interagenic gene interaction is/are
  - a) Incomplete dominance
  - c) Multiple alleles

- b) Codominant
- d) All of the above
- 20. If a cross between two individuals produces offspringe with 50% dominant character (A) and 50% recessive character (a),then the genotypes of parents are
  - a) Sex linked genes
  - c) Intermediate inheritance

- b) Pseudoallelic genes
- d) Dominant and recessive genes

