

Daily Practice Problems

NEET BIOLOGY

Topic: Principle of inheritance and variation

Q.1	Barr bodies are found in man and are associated with						
	(a) Male sex chromosomes	(b) Female autosomes					
	(c) Male autosomes	(d) Female sex chromosome					
Q.2	The blood group containing anti A and anti B is						
	(a) Blood group A	(b) Blood group B					
	(c) Blood group AB	(d) Blood group O					
Q.3	Which of the following sex – linked disease						
-	(a) Baldness	(b) Colorblindness					
	(c) Night blindness	(d) Far sightness					
Q.4	Albinism is						
	(a) Autosomal disorder	(b) Sex chromosomal disorder					
	(c) Both	(d) None					
Q.5	Sickle – cell anaemia is due to						
	(a) Hormones	(b) Viruses					
	(c) Genes	(d) Bacteria					
Q.6	Turner's syndrome in human is caused by						
	(a) Autosomal aneuploidy	(b) Sex – chromosome aneuploidy					
	(c) Polyploidy	(d) Point mutation					
Q.7	Colour blindness is caused by a single						
	(a) Dominant gene in womar	(b) Dominant gene in man					
	(c) Recessive gene in man	(d) Recessive gene in woman					
Q.8	If a haemophilic man marries a woman carrier (heterozygous) for haemophilia, what would be the possibility that thei						
	daughter would be haemophilic						
	(a) 100%	(b) 75%					
	(c) 50%	(d) 0%					
Q.9	In dihybrid cross pure homozygous plants will be						
	(a) 9 (b) 2					
	(c) 1 (d) 3					
Q.10	In a dihybrid cross, yellow is dominant over green and round seed coat is dominant over the wrinkled.						
	These were crossed and a typical Mendilian dihybrid ratio 9:3 3: 1 was obtained.						
	There are 1600 members of progeny. How many of them are likely to be wrinkled						
	(a) 100	(b) 400					
	(c) 300	(d) 600					

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Q.11	What type of gemetes are formed from a plant of genotype Tt Rr						
	(a) Tt and Rr (b) TR and tr						
	(c) TR, Tr, tR, tr	(d) Tr, tr only					
Q.12	XO human sex anomaly is resultant	of					
	(a) Klinefelter Syndrome	(b) Down's Syndrome					
	(c) Turner's Syndrome	(d) None of the above					
Q.13	"Cinderella" of genetics is						
	(a) Aspergillus	(d) Drosophila					
	(c) Guinea pig	(d) None					
Q.14	A Down's syndrome will be						
	(a) 45 + XX	(b) 44 + XY					
	(c) 44 + XXY	(d) 22 +XY					
Q.15	An individual with contrasting allel	es is called					
	(a) Heterozygous	(b) Homozygous					
	(c) Dioecious	(d) Monoecious					
Q.16	Multiple allelism controls inheritand	ce of					
	(a) Blood group	(b) Phenylketonuria					
	(c) Colour blindness	(d) Sickle – cell anaemia					
Q.17	Foetal sex can be determined by examining cells from amniotic fluid looking for						
	(a) Barr bodies	(b) Chiasmata					
	(c) Sex chromosomes	(d) Kinetochores					
Q.18	Law of incomplete dominance is Mirabilis jalapa (4 O'clock) was shown by						
	(a) Carrers	(b) Mendel					
	(c) Hugo de vries	(d) None of the above					
Q.19	What would be the number of chromosomes in the ovum (fertilized by a normal sperm)						
		linefelter's syndrome in the offspring?					
	(a) 23	(b) 22					
	(c) 21	(d) 24					
Q.20	Erythroblastosis Foetalis is found in children having						
-	(a) Both father and mother RH positive						
	(b) Rh positive father and Rh negative mother						
	(c) Both father and mother Rh negative						
	(d) Rh negative father and Rh positive mother						
Q.21	A husband and wife have normal vision but fathers of both of them were colour blind.						
Q.21	Probability of their first daughter to be colour blind is						
	(a) 25%	(b) 50%					
	(c) 75%	(d) 0%					
Q.22	A cross between hybrid and either of any parent is called						
	(a) Monohybrid cross	(b) back cross					
Q.22	(c) Test cross	(d) Dihybrid cross					

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Q.23	(a) 22 pairs of autosomes and one p(b) 23 pairs of autosomes and one p	somatic chromosome complement in all human being is 2 pairs of autosomes and one pair heterosomes 3 pairs of autosomes and one pair heterosomes 2 pairs of autosomes and one pair of heterosome one						
Q.24	The genotype of a boy having sexual characters of a girl is							
	(a) XX (b) XXY							
	(c) XO	(d) XYY						
Q.25	A test cross is between							
	(a) Two hybrids	(b) F ₁ hybrid with dominant parent						
	(c) F_1 hybrid with recessive parent	(d) All the above						
Q.26	Genetic code was given by							
20	(a) Watson and Crick	(b) Nirenberg						
	(c) Beadle and Tautum	(d) Kings, Watson and Crick						
Q.27	Which of the following Mendel's I(a) Law of segregation(b) Law of independent assortmer(c) Law of dominance(d) None of these	aws has not proved to be true in all cases? t						
Q.28.	Mongolism syndrome is caused by (a) Extra chromosome (b) Extra autosome (c) Extra chromosome in 21 st autosomal pair (d) Gene mutation							
Q.29	In monohybrid cross a typical genotypic ratio is (a) 3 : 1 (b) 9 :7 (c) 9 : 3 :3:1 (d) 1 : 2 : 1							
Q30	The types of gametes produced by (a) 8 (c) 4	an individual with genotype aaBbCc are (b) 6 (d) 2						

Que.	1	2	3	4	5	6	7	8	9	10
Ans.	d	d	b	а	с	b	с	с	b	b
Que.	11	12	13	14	15	16	17	18	19	20
Ans.	с	с	b	а	а	а	а	d	а	b
Que.	21	22	23	24	25	26	27	28	29	30
Ans.	d	b	с	b	с	b	с	с	d	с

ANSWER KEY

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