

MDCAT Biology Chapter 8 Evolution Online Test

Sr	Questions	Answers Choice
1	Mutation of one or two N-bases is	A. Inversion B. Point mutation C. Deletion D. Chromosomal aberrations
2	A blue cone monochromate	A. Can perceive two colours B. Can't perceive any colour C. Can perceive only blue colour D. Can perceive only red colour
3	Genes can be mapped on chromosomes on the basis of	A. Sex linkage B. Assortment C. Recombination frequency D. Gene sequencing
4	SRY is located at the tip of	A. Short arm of X-chromosome B. Short arm of Y-chromosome C. Long arm of Y-chromosome D. Long arm of X-chromosome
5	Interaction of two loci	A. Pleiotropy B. Epistasis C. Dominance D. Differentiation
6	Which phenomenon reduces the chances of genetic recombination and variations among offspring?	A. linkage B. crossing over C. independent assortment D. dominance
7	What are chances for having Rh-ve baby if one parent is Rh+ve and (homozygous) and other is Rh-ve	A. 25% B. 50% C. 100% D. 0%
8	Which can convert glucose to glucose 6 phosphate	A. Hexokinase B. Glucokinase C. Phospho fructokinase D. Both a & b
9	There are _____ total possible genotypes of blood group ABO system	A. 3 B. 4 C. 6 D. 7
10	Point mutation occurs in	A. Sickle cell anemia B. Phenylketonuria C. Alkaptonuria D. All
11	Who for the first time found white eye mutant in drosophila?	A. Morgan B. Bridges C. Correns D. De Vries
12	Blood pressure is also an example of _____ trait	A. Multifactorial B. Qualitative C. Single genic D. Both a & b
13	Which of these traits zigzags from maternal grandfather through a carrier daughter to a grandson?	A. autosomal B. X-linked C. Y-linked D. X and Y linked
14	Pseudo-autosomal genes are present on	A. X-chromosome B. Y-chromosome C. Both a & b D. Autosomes
15	Mutations are inherited only if they occur in the	A. Gland cells B. Gametes C. Muscle cells D. Somatic cells

16	Which of the following traits is not sex-linked recessive ?	A. haemophilia B. colour blindness C. hypophosphatemic ricket D. tfm syndrome
17	Queen victoria was having which kind of haemophilia	A. A B. B C. C D. None
18	How many kinds of rhodopsins, a blue cone monochromate will have	A. 3 B. 2 C. 1 D. No rhodopsins
19	In case of sickle cell anemia, in place of glutamic acid, _____ is found	A. Histidine B. Valine C. Proline D. Leucine
20	Rh factor is encoded by	A. 2 genes which occupy 3 loci B. 3 genes which occupy 2 loci C. 2 genes which occupy 2 loci D. 3 genes which occupy 3 loci
21	What happens when both alleles of a gene pair independently express in a heterozygote?	A. dominance B. incomplete dominance C. over dominance D. codominance
22	In sickle cell beta chain glutamic acid is replaced by valine which is sixth amino acid from	A. N-Terminal B. C-Terminal C. R-Terminal D. H-Terminal
23	Diabetes is the leading cause of	A. Kidney failure B. Adult blindness C. Heart disease D. All of these
24	What will be the risk of heamophilia in sons if father is haemophilic and mother is normal	A. 0% B. 20% C. 25% D. 50%
25	Bilirubin	A. Turns skin Yellow B. Damages brain cells C. Causes jaundice D. All of these
26	Which of the following traist is transmitted directly from an affected to only its sons?	A. autosomal B. X-linked C. Y-linked D. X and Y linked
27	If six cells out of 10, do crossing over what will be percentage of cross over gametes	A. 60% B. 30% C. 40% D. 50%
28	Man has _____ linkage group	A. 23 B. 21 C. 25 D. 46
29	Mutation may be caused by	A. Chemicals B. Radiations C. Mutagens D. All of these
30	The two linked genes A and B with a 30% recombination frequency must be	A. 15 units apart B. 30 units apart C. 60 units apart D. 90 units apart
31	If the distance of 20 map units is found among two linked loci what would be the percentage of cross gametes	A. 40% B. 60% C. 20% D. 10%
32	What is the 5th amino acid in sickle cell beta chain	A. Histidine B. Proline C. Leucine D. Valine
33	Sickle cell mutation affects	A. One beta chain B. Both beta chains C. Only alpha chain

		C. Only alpha chain D. None of the alpha or beta chain
34	What is the probability of having albino child if father and mother both are carrier(Aa)	A. 25% B. 30% C. 50% D. 75%
35	Homogenetic acid is oxidized rapidly when exposed to air, turning the urine	A. White B. Purple C. Blue D. Black
36	How many gene pairs contribute to the wheat grain colour?	A. one B. two C. three D. four
37	The chances of which hemophilia is equal in males & females	A. A B. B C. C D. All
38	Insulin receptors are present in	A. Cytoplasm of muscle cells B. Cell membrane of liver cells C. Cell membrane of muscles and liver cells D. Cell membrane of all body cells
39	A carrier mother for colour blindness does not have	A. A normal boy B. A carrier boy C. A colour blind boy D. A normal daughter
40	When a single gene has multiple phenotypic effects, the phenomenon is called:	A. codominance B. epistasis C. pleiotropy D. sex-linkage
41	Color blindness, haemophilia and gout form linkage group on	A. Chromosome 9 B. Chromosome 19 C. x-chromosome D. y-chromosome
42	When a haemophilic carrier woman marries a normal man, who among her offspring may be affected	A. all her children B. all her daughter C. half of her daughter D. half of her sons
43	Degenerated testes are present in abdomen in which of these cases	A. Down's syndrome B. Klinefelter's syndrome C. Turner's syndrome D. Testicular feminization
44	A phenotype which can't be expressed in heterozygous state but can only be expressed in homo or hemi form, would be	A. Dominant B. Bombay C. Recessive D. Ordinary
45	Two parents of blood group A had a child of blood group O, what will be percentage chances of having such child again	A. 25% B. 50% C. 75% D. None
46	Anti-Rh antibodies appear in plasma	A. During first few months B. During last months C. Only when stimulated D. If Rh ⁺ individual mistakenly receives Rh ⁻ blood
47	Which enzyme deficiency leads to phenylketonuria	A. Phenylalanine oxidase B. Phenylalanine hydroxylase C. Phenylalanine synthase D. Phenylalanine carboxylase
48	A heterozygote offspring quantitatively exceeds the phenotypic expression of both the homozygote parents due to:	A. dominance B. incomplete dominance C. over dominance D. codominance
49	A change in one or more bases of DNA, which results in the formation of an abnormal protein is	A. Moulting B. Transformation C. Mutation D. Fission
50	Genes for alpha and beta chains of hemoglobin are found on which chromosomes?	A. Chromosome 16 alpha; chromosome 11 beta B. Chromosome 11 alpha; chromosome 16 beta

