

MDCAT Biology Chapter 9 MCQ's Test

Sr	Questions	Answers Choice
1	Mutations are inherited only if they occur in the	A. Gland cells B. Gametes C. Muscle cells D. Somatic cells
2	Mutation may be caused by	A. Chemicals B. Radiations C. Mutagens D. All of these
3	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
4	Which phenomenon reduces the chances of genetic recombination and variations among offspring ?	A. linkage B. crossing over C. independent assortment D. dominance
5	Queen victoria was having which kind of haemophilia	A. A B. B C. C D. None
6	There are _____ total possible genotypes of blood group ABO system	A. 3 B. 4 C. 6 D. 7
7	A phenotype which can't be expressed in heterozygous state but can only be expressed other in homo or hemi form, would be	A. Dominant B. Bombay C. Recessive D. Ordinary
8	Mutation of one or two N-bases is	A. Inversion B. Point mutation C. Deletion D. Chromosomal aberrations
9	Which of these traits zigzags from maternal grand father through a carrier daughter to a grandson ?	A. autosomal B. X-linked C. Y-linked D. X and Y linked
10	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%
11	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
12	What will be the risk of haemophilia in sons if father is haemophilic and mother is normal	A. 0% B. 20% C. 25% D. 50%
13	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
14	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
15	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

16	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%
17	When a single gene has multiple phenotypic effects, the phenomenon is called:	A. condominance B. epistasis C. pleiotropy D. sex-linkage
18	What is the probability of having albino child if father and mother both are carrier(Aa)	A. 25% B. 30% C. 50% D. 75%
19	In case of sickle cell anemia, in place of glutamic acid, _____ is found	A. Histidine B. Valine C. Proline D. Leucine
20	The chances of which hemophilia is equal in males & females	A. A B. B C. C D. All