

## MDCAT Biology Chapter 13 Variation & genetics/ inheritance Online Test

Sr	Questions	Answers Choice
1	How many number of autosomal chromosome pairs are present in human	A. 22 B. 33 C. 44 D. 46
2	Which of the following are suicidal bags	A. Lysosomes B. Ribosomes C. Centriole D. Mitochondria
3	Which of the following cannot cross the phospholipid bilayer easily	A. Ions B. Gas molecules C. Ethanol D. Steroids
4	F1 particles contain enzyme complex for:	A. Protein synthesis B. ATP synthesis C. DNA replication D. Respiration
5	Pick up non-membranous organelle	A. Lysosomes B. Ribosomes C. Centriole D. B and C
6	Give an example of transport across cell membrane using energy	A. Endocytosis and exocytosis B. Reabsorption of Na <sup>+</sup> from ascending loop of Henle C. Reabsorption of water from collecting duct D. All
7	An organelle having no nucleic acid in its chemical composition is	A. Lysosomes B. Ribosomes C. Centriole D. Mitochondria
8	Nucleus is visible when the cell is in ____ stage	A. Non-dividing B. Dividing C. active D. Both a and b
9	Passage through the pores in nuclear envelope is restricted preliminary to	A. Proteins, RNA and protein-RNA complexes B. Lipids and glycolipids C. DNA and RNA D. Glycoproteins
10	Which of the following properties is incorrect for both mitochondria and chloroplast?	A. Both have an electron transport system B. ATP synthesis C. Both are present in all cells D. Both have double membrane structures
11	The semicircular channels and system of tubes found in cytoplasm are known as	A. Ribosomes B. Glyoxisomes C. E.R D. Vacuoles
12	Chloroplasts and mitochondria differ from one another because	A. Both are membranous organelles B. Both are non-membranous organelles C. Both are not present in all cells D. Both do not contain proteins
13	Oxidative metabolism is carried out ____ of mitochondria	A. In the intramembrane space B. On the surface of inner membrane C. In the inside of outer membrane D. In the matrix
14	Which of the following is not a prokaryotic cell?	A. Fungi have mitochondria B. Mitochondria have DNA and ribosomes C. All of these D. None of these

14	Which of the following statement is wrong?	<p>C. Mitochondrial ribosomes resemble more to eukaryotic ribosomes</p> <p>D. Mitochondria are self-replicating organelles</p>
15	The synthesis of Golgi bodies is initiated by	<p>A. Ribosomes</p> <p>B. R.E.R</p> <p>C. S.E.R</p> <p>D. Lysosome</p>
16	Which one of the following is site of oxidative Phosphorylation in mitochondria	<p>A. Cristae</p> <p>B. Outer membrane</p> <p>C. Matric</p> <p>D. Ribosome</p>
17	Lumen of the cristae is the part of	<p>A. Inner membrane</p> <p>B. Outer membrane</p> <p>C. Inner compartment</p> <p>D. Outer compartment</p>
18	In mitochondria, small knob like structure called F1 particles are found in	<p>A. Outer membrane</p> <p>B. Inner membrane</p> <p>C. Outer compartment</p> <p>D. Inner compartment</p>
19	Which component of the cell is mainly concerned with production of cell secretions?	<p>A. Ribosome</p> <p>B. Cytoskeleton</p> <p>C. Mitochondria</p> <p>D. Golgi</p>
20	Chlorophyll molecules resemble with which part of hemoglobin?	<p>A. Polypeptide chains</p> <p>B. Globin part</p> <p>C. Non-Protein</p> <p>D. All</p>