

MDCAT Biology Chapter 13 Variation & genetics/ inheritance Online Test

Sr	Questions	Answers Choice
1	Peptidoglycan or murine is a special or distinctive feature of cell wall in	A. Algae B. Bacteria C. Fungi D. Plants
2	The intake of liquid material across the cell membrane is called as	A. Phagocytosis B. Pinocytosis C. Endocytosis D. Exocytosis
3	Which of the following features is not shared by prokaryotic and eukaryotic cells	A. Ribosome B. Cytoplasm C. Cell membrane D. Nuclear membrane
4	Animal cells differ from plant cells in having	A. 80 S ribosome B. Chloroplasts C. Mitochondria D. Centrioles
5	Most unifying characteristics of all types of cells is	A. Cell membrane B. Nucleus C. Ribosomes D. S.E.R
6	Substances cross the cell membrane more easily when they are	A. water soluble B. protein soluble C. alcohol soluble D. lipid soluble
7	Eukaryotic ribosomes are composed of an almost equal amount of _____ and proteins	A. DNA B. RNA C. Carbohydrates D. Lipids
8	According to fluid mosaic model of cell membrane	A. The most common type of molecules in the membrane are proteins B. Basic membrane structure results from how proteins interact with water C. The membrane is highly mobile mixture of phospholipids and proteins D. The unique properties of cell types are determined by their phospholipids
9	Pick up the correct sequence of path followed by a testosterone molecule till its export	A. SER>RER>Transport vesicle>Golgi apparatus>secretory vesicle>cell membrane B. SER>Golgi apparatus>Transport vesicle>secretory vesicle>cell membrane C. SER>RER>Golgi apparatus> Transport vesicle>secretory vesicle>cell membrane D. SER>Transport vesicle>Golgi apparatus>secretory vesicle>cell membrane
10	Most of the plant cells lack following organelles EXCEPT	A. Flagellum B. Lysosome C. Centriole D. Mitochondria
11	A Cell interacts with its external environment through	A. Cell Wall B. Nuclear membrane C. Plasma membrane D. Cytoplasm
12	Endocytosis of an apoptotic body is termed as	A. Pinocytosis B. Exocytosis C. Phagocytosis D. Apoptosis

13	Pick up the correct statement about the following figure:	<p>A. 2.Nucleolus, 4.Golgi apparatus, 10.cytoplasm, 7.Mitochondria</p> <p>B. 2.Nucleolus, 7.cell membrane, 9.cytoplasm, 7.Mitochondria</p> <p>C. 2.Nucleolus, 4.Golgi apparatus, 5.cytoplasm, 7.Mitochondria</p> <p>D. 2.Nucleolus, 4.Golgi apparatus, 10.cytoplasm, 7.Centriole</p>
14	----- Develop the basic formwork of plasma membrane:	<p>A. Phospholipids</p> <p>B. Glycoproteins</p> <p>C. Glycolipids</p>
15	Which one of the following is associated with intracellular transport of material?	<p>A. Golgi apparatus</p> <p>B. Centriole</p> <p>C. Endoplasmic reticulum</p> <p>D. Lysosome</p>
16	Traffic of substance between nucleoplasm and cytoplasm is controlled by	<p>A. Nuclear Envelope</p> <p>B. Nuclear membrane</p> <p>C. Nuclear pores</p> <p>D. Endoplasmic reticulum</p>
17	Capability of extra nuclear inheritance is found in	<p>A. Ribosomes</p> <p>B. Lysosomes</p> <p>C. Mitochondria</p> <p>D. Chromosomes</p>
18	Digestive vacuoles are also called as	<p>A. Primary Lysosomes</p> <p>B. Secondary Lysosomes</p> <p>C. Phagocytic Vacuoles</p> <p>D. Pinocytic Vacuoles</p>
19	The organelle that protect the cell from invading organisms is	<p>A. Centriole</p> <p>B. Lysosome</p> <p>C. Mitochondrion</p> <p>D. Vacuole</p>
20	A group of ribosomes attached with same mRNA form polysome for	<p>A. Better expression of Gene</p> <p>B. Rapid production of protein</p> <p>C. Increased production of protein</p> <p>D. Protein export</p>
21	----- and ----- have same number of chromosome	<p>A. Man, Chimpanzee</p> <p>B. Chimpanzee, Potato</p> <p>C. Man, Potato</p> <p>D. Potato, Tomato</p>
22	Methylation of proteins occur in	<p>A. Transport vesicles of endoplasmic reticulum</p> <p>B. Lysosomes</p> <p>C. Golgi apparatus</p> <p>D. Transport vesicles of Golgi bodies</p>
23	A Crista is made of ----- membrane	<p>A. Lipoprotein</p> <p>B. Glycoprotein</p> <p>C. Nucleoprotein</p> <p>D. Phospholipids</p>
24	Which region of the nucleolus has DNA?	<p>A. Central fibrillar region</p> <p>B. Central granular region</p> <p>C. Peripheral granular region</p> <p>D. Peripheral fibrillar region</p>
25	The rough endoplasmic reticulum is involved in	<p>A. Synthesis of proteins</p> <p>B. Storage Of Ca^{+2} ions</p> <p>C. Synthesis of lipids</p> <p>D. Detoxification of drugs</p>
26	Which one of the following always contains DNA?	<p>A. Centriole</p> <p>B. Lysosome</p> <p>C. Golgi apparatus</p> <p>D. Mitochondrion</p>
27	All of the following are present in mitochondria, EXCEPT	<p>A. Cristae</p> <p>B. Ribosomes</p> <p>C. DNA</p> <p>D. Thylakoids</p>
28	Which one of the following acts as a site for storage of water and cells products or metabolic Intermediates?	<p>A. Chloroplast</p> <p>B. Mitochondrion</p> <p>C. Vacuole</p> <p>D. Endoplasmic reticulum</p>
29	On an average, there are 50 or more thylakoids piled to form one	<p>A. Intergranum</p> <p>B. Crista</p> <p>C. Granum</p> <p>D. F_1 particle</p>

30	Cells recycle their dead parts with the help of	A. Centrioles B. Vacuoles C. Lysosomes D. Golgi apparatus
31	Chlorophyll molecules resemble with which part of hemoglobin?	A. Polypeptide chains B. Globin part C. Non-Protein D. All
32	Which component of the cell is mainly concerned with production of cell secretions?	A. Ribosome B. Cytoskeleton C. Mitochondria D. Golgi
33	In mitochondria, small knob like structure called FI particles are found in	A. Outer membrane B. Inner membrane C. Outer compartment D. Inner compartment
34	Lumen of the cristae is the part of	A. Inner membrane B. Outer membrane C. Inner compartment D. Outer compartment
35	Which one of the following is site of oxidative Phosphorylation in mitochondria	A. Cristae B. Outer membrane C. Matric D. Ribosome
36	The synthesis of Golgi bodies is initiated by	A. Ribosomes B. R.E.R C. S.E.R D. Lysosome
37	Which of the following statement is wrong?	A. Fungi have mitochondria B. Mitochondria have DNA and ribosomes C. Mitochondrial ribosomes resemble more to eukaryotic ribosomes D. Mitochondria are self-replicating organelles
38	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
39	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
40	The semicircular channels and system of tubes found in cytoplasm are known as	A. Ribosomes B. Glyoxisomes C. E.R D. Vacuoles
41	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
42	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
43	Nucleus is visible when the cell is in ____ stage	A. Non-dividing B. Dividing C. active D. Both a and b
44	An organelle having no nucleic acid in its chemical composition is	A. Lysosomes B. Ribosomes C. Centriole D. Mitochondria
45	Give an example of transport across cell membrane using energy	A. Endocytosis and exocytosis B. Reabsorption of Na ⁺ from ascending loop of Henle C. Reabsorption of water from collecting duct D. All

46	Pick up non-membranous organelle	A. Lysosomes B. Ribosomes C. Centriole D. B and C
47	F1 particles contain enzyme complex for:	A. Protein synthesis B. ATP synthesis C. DNA replication D. Respiration
48	Which of the following cannot cross the phospholipid bilayer easily	A. Ions B. Gas molecules C. Ethanol D. Steroids
49	Which of the following are suicidal bags	A. Lysosomes B. Ribosomes C. Centriole D. Mitochondria
50	How many number of autosomal chromosome pairs are present in human	A. 22 B. 33 C. 44 D. 46