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## JSTSE PREVIOUS YEARS

### BIOLOGY (2012 – 2015)

1. Information necessary for constructing and organising cells is contained in (2012)
 

(a) DNA	(b) Nucleus
(c) Mitochondria	(d) RNA
2. The organelle responsible for storage of starch, oil and protein granules is: (2012)
 

(a) Chloroplast	(b) Plastid
(c) Leucoplast	(d) Ribosome
3. A cell placed in a solution swells up. The solution is (2013)
 

(a) Hypotonic	(b) Hypertonic
(c) Isotonic	(d) Both (a) and (b)
4. The process in which water molecules moves from a high water concentration to a region of low water concentration through a semi-permeable membrane is known as:(2013)
 

(a) Osmosis	(b) Transpiration
(c) Diffusion	(d) None of the above
5. Cell organell known as suicide bags: (2013)
 

(a) Golgi apparatus	(b) Plastid
(c) Endoplasmi reticulum	(d) Lysosome
6. Mitochondria are strange organelles as they have then-own (2013)
 

(a) Nucleus	(b) DNA
(c) Ribosome	(d) (b) and (c) both
7. The organelle involved in membrane biogenesis' is: (2014)
 

(a) Ribosome	(b) Mitochondria
(c) Endoplasmic Reticulam	(d) Lysosome
8. The cell organelle involved in the formation of Lysosome is: (2014)
 

(a) Vacuoles	(b) Mitochondria
(c) Golgi Apparatus	(d) Chioroplast

9. A cell becomes turgid when placed in a: (2014)  
 (a) Hypertonic solution (b) Hypotonic solution  
 (c) Isotonic solution (d) Concentrated solution
10. The cell organelle which has its own DNA & Ribosomes is: (2014)  
 (a) Mitochondria (b) Golgi Apparatus  
 (c) Endoplasmic reticulum (d) Lysosomes
11. The shape and size of cells are related to: (2014)  
 (a) Temperature (b) Pressure  
 (c) Specific function they perform  
 (d) Concentration of the surrounding medium
12. The organelle which is primarily associated with storage of starch, oil and proteins etc are (2014)  
 (a) Leucoplasts (b) Inner membrane of Mitochondria  
 (c) Endoplasmic reticulum (d) Ribosomes
13. The smooth endoplasmic reticulum helps in the manufacture of: (2015)  
 (a) Lipids (b) Glycogen  
 (c) Sugars (d) Proteins
14. The movement of water molecules from region of high concentration to a region of low concentration through a selectively permeable membrane is called: (2015)  
 (a) Diffusion (b) Osmosis  
 (c) Active Transport (d) Facilitated Transport
15. The engulfing of food and other material from the external environment by Amoeba is termed: (2015)  
 (a) Passive transport (b) Endocytosis  
 (c) Pinocytosis (d) Plasmolysis
16. The free living cells were first discovered by: (2015)  
 (a) Robert Brown (b) T. Schwann  
 (c) Robert Hooke (d) Leeuwenhock
17. The plasma membrane of the cells is mainly composed of: (2015)  
 (a) Sugars and lipids (b) Proteins and sugars  
 (c) Proteins and lipids (d) Sugars and fats
18. If the cell is placed in a hypertonic solution the cell will: (2015)  
 (a) Shrink (b) Swell up  
 (c) Remain of same size (d) Will burst

