



TARGET : NEET (UG) 2024

Course : SARANSH (Youtube Live CRASH COURSE)

BIOLOGY

DPP

DAILY PRACTICE PROBLEMS

DPP NO. 1

## BOTANY : CELL- THE UNIT OF LIFE

### DPP No. : 1

- A major site for synthesis of lipids is

(1) SER (2) Symplast  
(3) Nucleoplasm (4) RER
- Which of the following statements are correct with respect of Golgi apparatus ?

(A) It is the important site of formation of glycoprotein and glycolipids.  
(B) It produces cellular energy in the form of ATP  
(C) It modifies the protein synthesized by ribosomes on ER.  
(D) It facilitates the transport of ions.  
(E) It provides mechanical support.

Choose the most appropriate answer from the options given below:

(1) (B) and (C) only (2) (A) and (C) only  
(3) (A) and (D) only (4) (D) and (E) only
- Which structures perform the function of mitochondria in bacteria?

(1) Nucleoid (2) Ribosomes  
(3) Cell wall (4) Mesosomes
- Given below are two statements:

**Statement I** : In bacteria, the mesosomes are formed by the extensions of plasma membrane.  
**Statement II** : The mesosomes, in bacteria, help in DNA replication and cell wall formation.

In the light of the above statements, choose the most appropriate answer from the options given below.

(1) Statement I is correct but Statement II is incorrect  
(2) Statement I is incorrect but Statement II correct  
(3) Both Statement I and Statement II are correct  
(4) Both Statement I and Statement II are incorrect

5. Which of the following functions is carried out by cytoskeleton in a cell?  
 (1) Protein synthesis (2) Motility  
 (3) Transportation (4) Nuclear division
6. Which of the following are NOT considered as the part of endomembrane system?  
 A. Mitochondria B. Endoplasmic Reticulum  
 C. Chloroplasts D. Golgi complex  
 E. Peroxisomes  
 Choose the most appropriate answer from the options given below:  
 (1) A, C and E only (2) A and D only  
 (3) A, D and E only (4) B and D only
7. Movement and accumulation of ions across a membrane against their concentration gradient can be explained by  
 (1) Facilitated diffusion (2) Passive transport  
 (3) Active transport (4) Osmosis
8. Mitochondria and chloroplast are :  
 (a) semi-autonomous organelles  
 (b) formed by division of pre-existing organelles and they contain DNA but lack protein synthesizing machinery.  
 Which one of the following options is correct ?  
 (1) Both (a) and (b) are false. (2) Both (a) and (b) are correct.  
 (3) (b) is true but (a) is false. (4) (a) is true but (b) is false.
9. Which of the following is true for nucleolus?  
 (1) Larger nucleoli are present in dividing cells.  
 (2) It is a site for active ribosomal RNA synthesis.  
 (3) It takes part in spindle formation.  
 (4) It is a membrane-bound structure.
10. The concept of "Omnis cellula-e cellula" regard cell division was first proposed by :  
 (1) Aristotle (2) Rudolf Virchow  
 (3) Theodore Schwann (4) Schleiden

**Answer key**

1. (1) 2. (2) 3. (4) 4. (3) 5. (2) 6. (1)  
 7. (3) 8. (4) 9. (2) 10. (2)