

Yakeen NEET 2.0 2026

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Cell - The Unit of Life

DPP: 7

- Q1** Which of the following is correct match?
 (A) Amyloplasts-store carbohydrates
 (B) Elaioplasts-stored fats and oils
 (C) Aleuroplasts-store proteins
 (D) all of these
- Q2** Amyloplasts, elaioplasts and aleuroplasts belong to category of plastids.
 (A) chloroplasts (B) chromoplasts
 (C) leucoplasts (D) all of these
- Q3** Plastids differ from mitochondria on the basis of which of the following features?
 (A) Presence of two layers of membrane
 (B) Presence of ribosome
 (C) Presence of thylakoids
 (D) Presence of DNA
- Q4** Chromoplasts contain fat soluble pigments which is/are
 (A) chlorophyll
 (B) carotenoid
 (C) Anthocyanin
 (D) Both (A) and (B)
- Q5** The colourless plastids are
 (A) Amyloplast
 (B) Aleuroplast
 (C) Elaioplast
 (D) All of these
- Q6** The leucoplasts, that store protein:
 (A) amyloplasts (B) elaioplasts
 (C) aleuroplasts (D) glyceroplasts
- Q7** Which is the important site of formation of glycoproteins and glycolipids in eukaryotic cells?
 (A) Peroxisomes
 (B) Golgi bodies
 (C) Polysomes
 (D) Endoplasmic reticulum
- Q8** Directions: In the given question, two statements are given as Statement-I and Statement-II. Mark the correct choice as:
 Statement-I: Concave trans is the forming face and convex cis is the maturing face in Golgi apparatus.
 Statement-II: The hypothesis which tell us the bodies of animals and plants are composed of cells and products of cells was given by Rudolf Virchow.
 (A) Both Statement-I and Statement-II are correct
 (B) Both Statement-I and Statement-II are incorrect
 (C) Statement-I is correct and Statement-II is incorrect
 (D) Statement-I is incorrect and Statement-II is correct
- Q9** Golgi body is associated with:
 (A) packaging of material
 (B) protein synthesis
 (C) secretion of different substance
 (D) both (A) and (B).
- Q10** Which face of Golgi complex is associated with ER?
 (A) Forming face, i.e., *trans*-face



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- (B) Maturing face, i.e., *trans*-face
- (C) Both forming and maturing face
- (D) Forming face or *cis*-face

Q11 Golgi apparatus:

- (A) modifies and packages proteins
- (B) is important for osmoregulation and excretion
- (C) is found in prokaryotes
- (D) is site for rapid ATP synthesis

Q12 Directions: In the given question, two statements are given as Statement-I and Statement-II.

Mark the correct choice as:

Statement-I: Golgi apparatus is the important site for the synthesis of steroid hormones.

Statement-II: Endomembrane system does not include mitochondria and chloroplast.

- (A) Both Statement-I and Statement-II are correct
- (B) Both Statement-I and Statement-II are incorrect
- (C) Statement-I is correct and Statement-II is incorrect
- (D) Statement-I is incorrect and Statement-II is correct

Q13 What would happen if lysosomes get ruptured inside the cells in which they are present?

- (A) Cells will swell
- (B) Cells will shrink
- (C) Cells will die
- (D) Nothing would happen

Q14 How many of the following properties are related to lysosomes?

[Membrane bound vesicular structure, hydrolases, basic pH, formed in the RER, capable of digesting nucleic acids]

- (A) Two
- (B) Three
- (C) Four
- (D) Five

Q15 Lysosomes contain:

- (A) carboxylating enzymes
- (B) respiratory enzymes
- (C) oxidising enzymes
- (D) hydrolytic enzymes

Q16 Cell organelle connected with intracellular digestion of macromolecules is:

- (A) Lysosome
- (B) Peroxisome
- (C) Polysome
- (D) Glyoxisome

Q17 If the pH in lysosomes is increased to alkaline, what will be the outcome?

- (A) Hydrolytic enzymes will function more efficiently
- (B) Hydrolytic enzymes will become inactive
- (C) Lysosomal enzymes will be released into the cytoplasm
- (D) Lysosomal enzymes will be more active

Q18 Which of the following statements is correct regarding vacuole?

- (A) It is membrane-bound and contains storage proteins and lipids.
- (B) It is membrane-bound and contains water and excretory substances.
- (C) It lacks membrane and contains air.
- (D) It lacks membrane and contains water and excretory substances

Q19 Direction: In the following questions, a statement of assertion is followed by a statement of reason. Assertion (A): Concentration of certain ions and other molecules is significantly higher in the vacuole than in the cytoplasm.

Reason (R): Tonoplast facilitates the transport of a number of ions and other materials against concentration gradients into the vacuole.

- (A) If both Assertion (A) and Reason (R) are True and the Reason (R) is a correct explanation of the Assertion (A).
- (B)



If both Assertion (A) and Reason (R) are True but Reason (R) is not a correct explanation of the Assertion (A).

(C) If Assertion (A) is True but the Reason (R) is False.

(D) If Assertion (A) is False but the Reason (R) is True.

Q20 Vacuoles of plants are separated from cytoplasm by a membrane called;

- (A) protoplast. (B) cytoplasm.
(C) chloroplast. (D) tonoplast.

Q21 Directions: In the given question, two statements are given as Statement-I and Statement-II.

Mark the correct choice as:

Statement-I: Contractile vacuole is important for osmoregulation and excretion in Amoeba.

Statement-II: The golgi apparatus principally performs the function of packaging materials, to be delivered outside the cell.

- (A) Both Statement-I and Statement-II are correct
(B) Both Statement-I and Statement-II are incorrect
(C) Statement-I is correct and Statement-II is incorrect
(D) Statement-I is incorrect and Statement-II is correct

Q22 Outer and inner membranes of a mitochondrion are:

- (A) Exactly similar.
(B) Structurally as well as functionally different.
(C) Structurally same with same amount of protein, but functionally different
(D) No similarity at all

Q23 Which of the following statement is incorrect?

- (A) Mitochondria, unless specifically stained are not easily visible under the microscope
(B) Physiological activity of cells determines the number of mitochondria per cell
(C) Mitochondrion, a powerhouse of cells has DNA, RNA, ribosomes, and enzyme. So it can survive outside the cell
(D) Mitochondria divide by fission

Q24 Mitochondria perform all of the following function except

- (A) Nucleic acid synthesis
(B) Steroid synthesis
(C) ATP synthesis
(D) Polysaccharide degradation

Q25 Majority of the chloroplasts of the green plants are found in the

- (A) Mesophyll cells
(B) Bundle sheath cells
(C) Cortical cells
(D) Epidermal cells

Q26 Which pigment is not present in chromoplast?

- (A) Chlorophyll 'a'
(B) Carotene
(C) Xanthophylls
(D) Anthocyanin

Q27 Which of the following substances are stored in aleuroplast?

- (A) Starch (B) Oil and Lipids
(C) Proteins (D) Water and Oil

Q28 The DNA present in chloroplast is:

- (A) Circular, single stranded
(B) Linear, double stranded
(C) Circular, double stranded
(D) Linear, single stranded



Answer Key

Q1 (D)
Q2 (C)
Q3 (C)
Q4 (B)
Q5 (D)
Q6 (C)
Q7 (B)
Q8 (B)
Q9 (A)
Q10 (D)
Q11 (A)
Q12 (D)
Q13 (C)
Q14 (B)

Q15 (D)
Q16 (A)
Q17 (B)
Q18 (B)
Q19 (A)
Q20 (D)
Q21 (C)
Q22 (B)
Q23 (C)
Q24 (D)
Q25 (A)
Q26 (A)
Q27 (C)
Q28 (C)



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