

Arjuna NEET 2026

Botany

Cell - The Unit of Life

DPP 01

- Q1** You are asked to examine a cell using a powerful light microscope. The image you see has a clearly defined nucleus and mitochondria. It also has a large central vacuole and chloroplasts. From what group of organisms did this cell most likely come?
- (A) Bacteria (B) Protists
(C) Animal (D) Plants
- Q2** The best way to identify a cell as either plant cell or animal cell is to determine whether:
- (A) it came from a single-celled or multicellular organism.
(B) it has a cell wall.
(C) it has a plasma membrane.
(D) it has cytosol.
- Q3** Which of following is not common in chloroplasts & mitochondria?
- (A) Both are present in animal cells
(B) Both contain their own genetic material
(C) Both are present in eukaryotic cells
(D) Both are present in plant cells
- Q4** How many non-membrane-bound organelles are found in animal cells that are absent in plant cells?
- (A) 2
(B) 1
(C) An animal cell does not have non-membrane-bound organelles.
(D) Plant and animal cells have all the same organelles.
- Q5** Read the given statements and select the correct option.
- Statement 1: Plant cells do not rupture when placed in distilled water.
- Statement 2: Animal cells rupture when placed in distilled water.
- (A) Both statements 1 and 2 are correct.
(B) Statement 1 is correct but statement 2 is incorrect
(C) Statement 1 is incorrect but statement 2 is correct
(D) Both statements 1 and 2 are incorrect.
- Q6** The feature which differentiate cells of human cheek with the cells of onion peel is:
- (A) the type of outer boundary
(B) cytoplasm which is the main arena of cellular activities
(C) absence of centriole
(D) presence of dense membrane bound structure
- Q7** The phragmoplast is organised at the:
- (A) beginning of anaphase
(B) beginning of telophase
(C) end of anaphase
(D) end of telophase
- Q8** Incorrect statement is:
- (A) All eukaryotic cells are not identical.
(B) Plant cells possess cell walls, plastids and a large central vacuole, which are absent in animal cell.
(C) Animal cells have centrioles and dictyosomes which are absent in almost all plant cells.
(D) Eukaryotic genetic material is organised into chromosomes.
- Q9** Which of the following statements are incorrect?
- (i) Plant cells have centrioles which are absent in almost all animal cells.
(ii) Ribosomes are the site of protein synthesis.



(iii) The middle lamella is a layer mainly of calcium carbonate which holds the different neighbouring cells together.

(iv) In animal cell, steroidal hormones are synthesized by smooth endoplasmic reticulum.

- (A) (i) and (iii) (B) (iii) and (iv)
(C) (ii) and (iv) (D) (i) and (iv)

Q10 Presence of is a unique character of plant cells

- (A) Nucleus (B) Centriole
(C) Cell Wall (D) Peroxisome

Q11 Which of the following cell lacks cell wall?

- (A) Animal cell (B) Plant cell
(C) Algal cell (D) Bacterial cell



Answer Key

Q1 (D)

Q2 (B)

Q3 (A)

Q4 (B)

Q5 (A)

Q6 (A)

Q7 (C)

Q8 (C)

Q9 (A)

Q10 (C)

Q11 (A)



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