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Q47

Which of the following statements are correct regarding the general difference between plant and animal cells? 1. Plant cells have cellulose cell walls whilst animal cells do not. 2. Plant cells do not have plasma membrane unlike animal cells which do. 3. Mature plant cell has one large vacuole whilst animal cell has many small vacuoles. Select the correct answer using the code given below: (a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3 Official key: C.

UPSC Civil Services Prelims 2020 · General Studies · 2 marks · Science and Technology
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Explanation**(a)**

1 and 2 only. Plant cells have a plasma membrane inside the wall.

(b)

2 and 3 only. Statement 2 is false.

(c) Official key

1 and 3 only. Cellulose wall vs none; large central vacuole vs many small. Both have plasma membranes.

(d)

All three. Statement 2 fails.

Summary

- **Official key is (c) 1 and 3 only. Plants:** cellulose wall and (when mature) one large vacuole. Animals: no cellulose wall, many small vacuoles. Both cell types have a plasma membrane.

Related possible facts

These can be asked in a future Prelims paper.

Tonoplast

Membrane of the plant central vacuole.

Middle lamella

Pectin between plant walls.

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