

- 18 Two test-tubes, labelled X and Y, were set up containing equal volumes of solution X or solution Y respectively.

A large number of type P cells and a large number of type Q cells were added into test-tube X and also into test-tube Y.

After a few minutes, samples of the solutions were taken and the cells were observed with a microscope.

- In solution X, all of cell type P had burst and cell type Q had **not** burst.
- In solution Y, **no** cells had burst.

Which row correctly identifies cell type Q and solutions X and Y?

| | cell type Q | solution X | solution Y |
|----------|-----------------|---------------------|---------------------|
| A | red blood cells | 5% NaCl solution | distilled water |
| B | goblet cells | 5% glucose solution | distilled water |
| C | liver cells | distilled water | 5% glucose solution |
| D | root hair cells | distilled water | 5% NaCl solution |