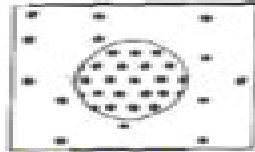


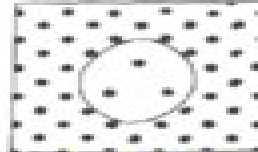
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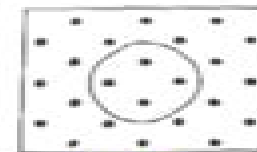
Label the pictures below (isotonic, hypertonic, or hypotonic environments)



HYPO



HYPER



ISO

HYPER tonic means there is a GREATER concentration of solute molecules OUTSIDE the cell than inside.

HYPO tonic means there is a LOWER concentration of solute molecules OUTSIDE the cell than inside.

ISO tonic means there is the SAME concentration of solute molecules outside the cell as inside.

The pressure inside a plant cell caused by water pushing against the cell wall is called TURGOR pressure.



Cells swell and burst

The SWELLING AND BURSTING of animal cells when water enters is called CYTOLYSIS.

This happens when a cell is placed in a HYPO tonic solution.

Placing plant cells in a HYPOTONIC solution causes the osmotic pressure to increase decrease.



The SHRINKING of plant cells when water leaves so the cell membrane pulls away from the cell wall is called PLASMOLYSIS.

It happens when a plant cell is placed into HYPER tonic solution.

When water leaves a plant cell, the osmotic pressure will decrease increase.



Cells shrink and shrivel

The shrinking of ANIMAL cells that are placed in a HYPERTONIC solution is called PLASMOLYSIS.

Topic 3 Review Cellular Transport

Kevin T. Patton, Gary A. Thibodeau



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Source Book was on CHOICE's list of Outstanding Academic Books for 1996 and the second edition was on CHOICE's list of Outstanding Academic Books in 1998 *Structure & Function of the Body - E-Book* Kevin T. Patton, Gary A.

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Kevin T. Patton, Gary A. Thibodeau, 2013-01-01 Rev ed of The human body in health disease Gary A Thibodeau Kevin T Patton 5th ed c2010 *Manual on Vitamin A Deficiency Disorders (VADD)* Donald Stewart McLaren, Klaus Kraemer, 2012 An up to date and comprehensive handbook Vitamin A plays a key role among the vitamins essential for healthy growth and development Vitamin A deficiency disorders VADD are therefore an important part of general malnutrition that in the majority of cases leads to failure to thrive and underweight Moreover apart from adverse effects on health and survival in general VADD can also lead to blindness called xerophthalmia and are also frequently accompanied by various infections Last but not least it has become evident that even mild degrees of VAD and all other forms of nutritional deficiencies have important adverse implications for health and are thus much more widespread than previously assumed This publication systematically covers detailed and up to date information on every relevant aspect of VADD with particular emphasis on providing an outline of their setting nature and significance In addition to cutting edge scientific information the latest available data on the global occurrence of VAD from the World Health Organization is also included

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 Karl J. Oparka, 2008-04-15
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