

- 1) Which of the following regulatory challenges is/are faced by freshwater fishes?
 - a) Water tends to diffuse out the fish
 - b) Salts tend to diffuse out of the fish**
 - c) They must create highly concentrated urine
 - d) They lack mechanisms to actively transport ions
 - e) No challenges, as they are isosmotic with regards to their environment

- 2) _____ is the maintenance of a nearly constant osmotic pressure in body fluids, despite a different or changing osmotic pressure in the surrounding environment.
 - a) osmoregulation**
 - b) osmoconformity
 - c) ionic regulation
 - d) ionic conformity
 - e) volume regulation

- 3) An animal that maintains body fluid osmotic pressure lower than the osmotic pressure of its environment is a(n)
 - a) isosmotic regulator
 - b) hyposmotic regulator**
 - c) hyperosmotic regulator
 - d) hypoconformer
 - e) hyperconformer

- 4) Osmoconformity occurs more commonly in invertebrates than in vertebrates – **TRUE** or FALSE?

- 5) Chloride cells are mitochondria-rich cells devoted to ion transport – **TRUE** or FALSE?