SEDA QUIZ

- 1. Where is the **lumen** of a hollow fine fiber located?
 - a) Top of the fiber
 - b) Exterior of the fiber
 - c) Center of the fiber
 - d) Bottom of the fiber
- 2. What is defined as the hydraulic driving pressure moving water through the membrane measuring the difference in pressure between 2-sides of the membrane called?
 - a) Transmembrane pressure
 - b) Recovery rate
 - c) Rejection rate
 - d) Concentration factor
- 3. In a properly functioning ultra-filtration system which parameter would you expect to pass through the membrane?
 - a) Suspended solids
 - b) Calcium hardness
 - c) Viruses
 - d) Bacteria
- 4. Which of these are not a common fouling problem of an Ultrafiltration membrane?
 - a) Particulate
 - b) Biological
 - c) Organic
 - d) Mg
- 5. If sulfide is not removed from water, how much chlorine will be required to oxidize 1ppm of sulfide?
 - a) 4.0 mg/l
 - b) 4.5 mg/l
 - c) 2.0 mg/l
 - d) 8.33 mg/l

- 6. What is the concentration factor of Nano-filtration system with a recovery rate of 82%? Formula = 1/(1-recovery rate)
 - a) 5.5
 - b) .012
 - c) 81
 - d) 4.7
- 7. What is a condition in a UF membrane element in which there is no compromising of feed water into the filtrate due to broken fibers called?
 - a) Membrane performance
 - b) Membrane integrity
 - c) Surface filtration
 - d) Luminosity
- 8. Which of these is not considered membrane integrity testing of an ultrafiltration system?
 - a) Bubble point test
 - b) Diffusion
 - c) Pressure hold
 - d) Pressure surge test
- 9. What is called the number of hollow fiber membranes or the total usable membrane area per unit volume of a module?
 - a) Membrane autopsy
 - b) Membrane mesh size
 - c) Membrane packing density
 - d) Membrane coefficient.
- 10. What is called a grouping of hollow fine fibers or hollow fine membranes placed inside a pressure vessel called?
 - a) Membrane element
 - b) Membrane mode
 - c) Membrane bundle
 - d) Membrane coefficient