**Assignment Module 1 – Introduction on NRW**

1. What is the average percentage of NRW in Sub Saharan Africa?
   1. 19%,
   2. 29%,
   3. 39%,
   4. 49%
2. Are data entry errors part of NRW?
   1. No, not at all
   2. Yes, part of unbilled authorized consumption
   3. Yes, part of apparent losses
3. What is the relation between pressure and water loss from leakages?
   1. There is no relation
   2. higher pressure gives less water loss
   3. higher pressure gives more water loss (almost linear)
   4. higher pressure gives more water loss (strongly exponential)
4. Which of the following is not part of Unbilled Authorised Consumption?
   1. fire water,
   2. sewer cleaning,
   3. pipe flushing,
   4. meter bypass,
   5. free water for the poor
5. Is ILI a better performance indicator than the % of volume produced?
   1. No, ILI unnecessary for accurate measurement of NRW
   2. Yes, because ILI is system specific
6. Which of the following is not part of the Unavoidable Annual Real Losses (UARL)?
   1. The number of service connections,
   2. the length of mains,
   3. the length of private pipes,
   4. the average operating pressure,
   5. volume of produced water
7. What is according to you the biggest cause of NRW in your company?
   1. Leakages from mains and private connections
   2. Leakages at storage tanks
   3. Illegal connections
   4. Data handling errors
   5. Water meter inaccuracies
   6. Other

Answers

* 1. c
  2. c
  3. c
  4. d
  5. b
  6. e
  7. case specific