

Course Title: Environmental Issues in Real Estate

Course Code: ENV-101

Student ID: _____

Marks: 5+ (2×5) =15

Time: 35 minutes

1. Please determine whether the following statements are true or false. Write only “True” or “False” beside the question: **Marks: 5×1=5**

- a) Aquifers can be contaminated due to proximity to latrines.
- b) Intakes should be located at downstream of rivers to get water during the dry period.
- c) First flush prevents pollutants from entering the storage tank.
- d) Disinfection of water can be done by boiling, sunlight, or chlorination.
- e) Pumping water distribution system can support during short time power disruption.

2. Answer the following questions:

Marks: 10

A. Suppose you want to design a water supply system for an area. The population of the area is 12,000. The annual water requirement of that area is 963,600,00 liters. Calculate the *average daily per capita demand*. Also, calculate the *average daily per capita supply* considering the fluctuation in the rate of demand. [3]

B. How can you decide the main source of water supply of an area (Groundwater/ Surface water)? What factors should you consider? [3]

C. Discuss the advantages and disadvantages of rainwater harvesting. [4]