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1. Assertion A : The consumption of water increases with increase in the distribution pressure.

Reason R : Higher distribution pressure causes more loss and waste of water.

Select your answer according to the coding system given below

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

Ans: a

2. The per capital consumption of a locality is affected by

- i) climatic conditions
- ii) quality of water
- iii) distribution pressure

The correct answer is

- a) only (i)
- b) both (i) and (ii)
- c) both (i) and (iii)
- d) all (i), (ii) and (iii)

Ans: d

3. Which of the following causes a decrease in per capita consumption ?

- a) use of metering system
- b) good quality of water
- c) better standard of living of the people
- d) hotter climate

Ans:a

4. The hourly variation factor is usually taken as

- a) 1.5
- b) 1.8
- c) 2.0
- d) 2.7

Ans:a

5. If the average daily consumption of a city is 100,000 m³, the maximum daily consumption on peak hourly demand will be

- a) 100000m³
- b) 150000m³
- c) 180000m³
- d) 270000 m³

Ans:d

6. The distribution mains are designed for

- a) maximum daily demand
- b) maximum hourly demand
- c) average daily demand

d) maximum hourly demand on maximum day

Ans:d

7. As compared to geometrical increase method of forecasting population, arithmetical increase method gives

- a) lesser value
- b) higher value
- c) same value
- d) accurate value

Ans:a

8. The population of a town in three consecutive years are 5000, 7000 and 8400 respectively. The population of the town in the fourth consecutive year according to geometrical increase method is

- a) 9500
- b) 9800
- c) 10100
- d) 10920

Ans:d

9. The suitable method of forecasting population for a young and rapidly increasing city is

- a) arithmetical increase method
- b) geometrical increase method
- c) incremental increase method
- d) graphical method

Ans:b

10., The depression of water table in a well due to pumping will be maximum

- a) at a distance R from the well
- b) close to the well
- c) at a distance $R/2$ from the well
- d) none of the above

where R is the radius of influence

Ans:b