

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

**B.Voc. (Building Construction and Technology) (Sem.-4)  
WATER SUPPLY AND WASTE WATER ENGINEERING**

**Subject Code : BVBCT-401-20**

**M.Code : 91637**

**Date of Examination : 05-07-22**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

**SECTION-A**

**1. Write briefly :**

- a) Define surface and underground sources of water.
- b) Differentiate between water carriage and conservancy systems of sanitation.
- c) Define the term sullage.
- d) What do you mean by break point chlorine?
- e) What is meant by variation in demand?
- f) What is the function of reflux valves and scour valves?
- g) What are the characteristics of traps?
- h) What do you mean by sewer appurtenances?
- i) Name various materials used for sewer construction.
- j) In what condition we provide inverted siphons.

## SECTION - B

2. Describe in brief minor methods of disinfection.
3. How will you estimate the quantity of water required by a town while arranging a water supply scheme for the same?
4. Explain any two methods of estimating the future population of a city. What are their relative merits?
5. Why we provide manholes? Describe various components of manhole with neat sketch.
6. What factors will you keep in mind while designing plumbing system for water supply to a house?

## SECTION-C

7. Enumerate the various appurtenances which are generally provided while laying water supply mains bringing water from source to the city.
8. Explain the classification of traps with sketches.
9. Discuss the various steps involved in the layout and construction of sewer lines.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**