The Assam Royal Global University, Guwahati

Roll No:

Royal School of Engineering & Technology B Tech (Civil Engineering) 7th Semester Special Supplementary Examination, August 2024 Course Title: Plumbing & Water Supply Course Code: CEE022G701

Time: 3 Hours

Maximum Marks: 70

Note: Attempt all questions as per instructions given.

The figures in the right-hand margin indicate marks.

Section – A

- 1. Attempt all questions. (Maximum word limit 50)
 - a. Calculate the volume of a tank in litre if both radius and height of the tank are 1 m.
 - b. List the different types of material in which plumbing fittings are available.
 - c. What is the difference between a threaded joint and a welded joint.
 - d. Define drain water outlet.
 - e. What is flushing cistern?
 - f. What is MSWP?
 - g. What is a good installation system?
 - h. What is dry repair?

Section – B

2. Attempt any two of the following:

- a. Define the plumbing system. Why is plumbing system necessary for all types of building?
- b. Describe the main components of a plumbing system?
- c. Illustrate the methods adopted for safe handling of the pipe cutter, pipe bending and drilling machines.

3. Attempt any two of the following:

- a. Describe the steps involved in laying pipes. List the precautions one should take during laying of pipes.
- b. Draw the *figures* of bends and reducing tees, and the *symbols* of bends and reducing tees.
- c. Why are joints necessary? Discuss joints in detail, with suitable figures.

4. Attempt any two of the following:

- a. Why do we use power tools? Discuss three important power tools used in plumbing.
- b. Differentiate between hand tools and power tools. Why do we use multi-tool?
- c. Explain the different fittings and its uses in the plumbing system.
- 5. Attempt any two of the following:
 - a. Write down the important steps for the installation of plumbing fixtures.
 - b. Explain the procedure of pipe joining.
 - c. Discuss pipe corrosion. How can such a pipe be repaired.

7 x 2

7 x 2

6 x 2

7 x 2

2 x 8