

SECTION A:

1. Briefly explain the following terms as used in community water and supply; **(3 Marks)**
 - a) Flocculation
 - b) Sedimentation
 - c) Eutrophication
2. Briefly explain what happens in secondary sedimentation tank in commercial water treatment **(5 Marks)**
3. How would you classify water based on bacteriological analysis? **(5 marks)**
4. Briefly discuss the objectives of water testing **(4Marks)**
5. What are the three water classifications based on source **(3 Marks)**
6. What will be your interpretation when the water analysis results indicate ‘Numerous to count’(NTC) Coli forms and 45 E-Coli detected in your water test results? **(3Marks)**
8. Under ground water is one of the most reliable sources. List any three mechanisms that can be used to draw the water from underground source **(3 Marks)**
9. What are the factors to consider before deciding community water distribution design **(4 Marks)**

SECTION B:

1. With aid of a well labeled diagram, briefly discuss the commercial water treatment process **(15 Marks)**
2. You are in charge of a community based organization which have received donor fund for spring protection in your area of jurisdiction. Discuss the steps that you will undertake in the spring protection. **(15 Marks)**
3. Discuss factors contributing to water stress and how they can be remedied in an urban setup **(15 Marks)**
4. Discuss Eutrophication and its effects and its control strategies **(15 Marks)**