

Term End External Examination 1<sup>st</sup> Semester (Session-Feb 2025)

Subject: Skill Enhancement Course

Course No and Title: WMG122S/ Water Quality Assessment

Time: 1.15 hours      Max Marks:50      Min. Marks:20

Section A: Objective Type Questions

**Q1. Choose the appropriate Answer: (4x1.5=06)**

i. Which of the following is an example of surface water?

- A Glacier                                      B Aquifer  
C Reservoir                                    D Groundwater

ii. What is the ideal temperature for preserving water samples for biological analysis?

- A 0°C    B 4°C  
C 10°C    D Room temperature

iii. Which of the following instruments is used to measure electrical conductivity of water?

- A pH meter                                      B Spectrophotometer  
C Conductivity meter                        D Turbidity meter

iv. The standard pH range for drinking water as per WHO is

- A 6.5 – 8.5                                      B 6.0 – 7.0  
C 7.0 – 9.5                                      D 8.5 – 10.0

Section-B: Descriptive Type Questions (Short Type)

**Q2: Answer all the Questions (4 x 4 =16)**

- i. What are the major sources of ground water pollution?
- ii. What is a role of secondary treatment process in a sewage treatment plant?
- iii. Define alkalinity and its significance in water quality.
- iv. What is the principle behind the working of a conductivity meter?

Section – C: Descriptive Type Questions (Medium Type)

Answer all the questions: (2 x 7=14)

**Q3.** Explain the distribution of water resources on Earth.

**OR**

Write a note on preservation and storage of water samples.

**Q4.** Explain the importance of temperature in water quality analysis.

**OR**

Write a note on water quality standards.

Section – D: Descriptive Type Questions (Long Type)

Answer any one of the following: (1 x 14=15)

**Q5.** Describe in detail the sources, effects, and control measures of surface water pollution.

**Q6.** Give principle and working of a pH meter.