CIVIL ENGINEERING

Work Sheet

Course Title : **GROUND WATER HYDROLOGY**

Course Code : **23CE711**

Regulation : **NR23**

UNIT – IV: Surface and Sub-surface Investigation

Multiple Choice Questions

1. Electrical resistivity method is used for:
    - A) Groundwater Exploration
    - B) Rainfall Measurement
    - C) Water Treatment
    - D) Canal Design
    - **Answer: A**
2. Seismic refraction method is based on:
    - A) Light Waves
    - B) Sound Waves
    - C) Electrical Current
    - D) Heat Transfer
    - **Answer: B**
3. Geophysical logging is carried out in:
    - A) Wells
    - B) Rivers
    - C) Canals
    - D) Reservoirs
    - **Answer: A**
4. Resistivity logging measures:
    - A) Temperature
    - B) Electrical Resistance
    - C) Velocity
    - D) Pressure
    - **Answer: B**
5. Artificial recharge aims to:

- A) Increase Surface Runoff
- B) Increase Groundwater Storage
- C) Reduce Rainfall
- D) Increase Evaporation
- **Answer: B**

6. Percolation tanks are used for:
   - A) Flood Control
   - B) Artificial Recharge
   - C) Water Treatment
   - D) Irrigation Only
   - **Answer: B**
7. GIS stands for:
   - A) Geographic Information System
   - B) Groundwater Investigation System
   - C) Global Information Service
   - D) Geographic Irrigation System
   - **Answer: A**
8. RS stands for:
   - A) Remote Sensing
   - B) Recharge System
   - C) River Survey
   - D) Resource Study
   - **Answer: A**
9. Artificial recharge is most useful in:
   - A) Groundwater Depleted Areas
   - B) Oceans
   - C) Deserts without Aquifers
   - D) Lakes
   - **Answer: A**
10. Geophysical methods are:
    - A) Destructive
    - B) Non-destructive
    - C) Chemical
    - D) Biological
    - **Answer: B**

Fill in the Blanks

1. Electrical resistivity method measures subsurface _____.
   Answer: Resistance
2. Seismic refraction uses _____ waves.
   Answer: Seismic
3. Artificial recharge increases groundwater _____.
   Answer: Storage
4. GIS stands for Geographic Information _____.
   Answer: System

5. RS stands for Remote _____.
   Answer: Sensing
6. Geophysical logging is performed in _____.
   Answer: Boreholes
7. Recharge pits are structures used for artificial _____.
   Answer: Recharge
8. Electrical resistivity surveys help locate _____.
   Answer: Aquifers
9. Seismic methods help determine subsurface _____.
   Answer: Layers
10. GIS and RS are important tools for groundwater _____.
    Answer: Management
