**Question 1**

**What is the general appearance of the lake water?**  
*Select the option that best matches what you see:*  
a) Dense green vegetation mat covering much of the surface  
b) Bright green, paint-like scum floating on the surface  
c) Greenish water, losing transparency  
d) Yellow or yellow-green water, losing transparency  
e) Blue or blue-green water  
f) Clear and transparent water  
g) Brown or turbid water

**How This Indicates Water Quality**

| **Observation (Choice)** | **Likely Condition** |
| --- | --- |
| a) Dense green vegetation mat | **Poor** |
| b) Bright green, paint-like scum | **Poor** |
| c) Greenish water, losing transparency | **Moderate to Poor** |
| d) Yellow/Yellow-green, losing transparency | **Moderate** |
| e) Blue or blue-green | **Good** |
| f) Clear and transparent | **Very Good** |
| g) Brown/turbid | **Variable but Concern** |
| **Are there any unusual or strong odours coming from the lake?** *Select one option and describe the odour if present:*   1. Odour absent b) Odour present but not strong c) Strong odour (can stand around the lake) d) Unbearable odour (cannot stand near the lake)   **How This Indicates Water Quality**   | **Observation (Choice)** | **Likely Condition** | | --- | --- | | a) Odour absent | **Good** | | b) Odour present but not strong | **Moderate** | | c) Strong odour (can stand around) | **Poor** | | d) Unbearable odour (cannot stand near lake) | **Severe** |   **How appealing is the lake for recreation and aesthetic enjoyment today?** *Select the option that best describes your impression:*   1. **Beautiful, excellent for boating, photography, and picnics** b) **Pleasant, suitable for casual walks or relaxing nearby** c) **Acceptable, but not inviting for recreation** d) **Unpleasant, would avoid spending time near the lake** e) **Very unattractive, looks polluted or unsafe**   **How This Indicates Water Quality & Ecosystem Health**   | **Observation (Choice)** | **Likely Condition** | | --- | --- | | a) Beautiful, excellent for boating, photography, and picnics | **Excellent** | | b) Pleasant, suitable for casual walks or relaxing nearby | **Good** | | c) Acceptable, but not inviting for recreation | **Moderate** | | d) Unpleasant, would avoid spending time near the lake | **Poor** | | e) Very unattractive, looks polluted or unsafe | **Severe degradation** | |  |

**What kind of surroundings does the lake have?**  
*Select the option that best describes the dominant surroundings:*

a) Natural forest or wetland

b) Agricultural land

c) Residential area

d) Market area

e) Industrial area

F) recreational area

g) other

**What kind of activities happen in or around the lake?**  
*(Select all that apply)*

a) **Bathing or washing**

b) **Fishing** – Subsistence or recreational fishing  
c) **Boating or water sports** – Recreational or commercial boating  
d)**Recreation (tourism, picnic)**

**e) farming**

**f) Abandoned**

**e) maintenance**

**Are there trees or shrubs along the lake’s edge?**  
*Select the option that best describes vegetation cover around the shoreline:*

a) **Dense natural vegetation** – Trees and shrubs cover most of the shoreline  
b) **Moderate vegetation** – Some trees/shrubs present, but not continuous  
c) **Sparse vegetation** – Very few trees/shrubs, mostly open banks  
d) **No vegetation** – Bare banks, paved or heavily modified edges

| **Shoreline Vegetation** | **Ecological or Management Significance** | **Reasoning** |
| --- | --- | --- |
| Dense natural vegetation | Natural buffer, habitat quality | Trees/shrubs stabilize banks, filter runoff, and provide habitat for birds, insects, and fish. |
| Moderate vegetation | Partial buffer | Offers some erosion control and filtration, but gaps may allow runoff entry. |
| Sparse vegetation | Vulnerable shoreline | Poor bank stability; more prone to erosion and nutrient/sediment inflow. |
| No vegetation | Highly disturbed | Paved or bare edges increase runoff, temperature fluctuations, and habitat loss. |

**Do you see any of these around or in the lake today?**  
*(Tick all that apply)*

* Birds
* Fish
* Frogs/Amphibians
* Bats
* Butterflies
* Bees
* Dragonflies/Damselflies
* Other insects
* Aquatic plants (like lilies, lotuses, reeds)
* Large trees/shrubs nearby
* Other wildlife (specify: \_\_\_\_\_\_\_\_\_)
* **Do you see floating garbage or debris in the lake?**  
  *Select one option:*
* a) None – water looks clean  
  b) A few pieces – minor litter  
  c) Moderate amount – noticeable trash floating  
  d) Large amount – heavily polluted with floating garbage

| **Observation** | **Ecological Importance** |
| --- | --- |
| None | Minimal anthropogenic pressure |
| A few pieces | Minor pollution |
| Moderate amount | Moderate pollution |
| Large amount | Severe pollution |

**Have you witnessed any clean-up or maintenance activities at the lake?**  
*Select one:*

* **Yes, often**
* **Rarely**
* **No**

| **Response** | **Neutral Interpretation** | **Reasoning** |
| --- | --- | --- |
| Yes, often | Active human management | Indicates intervention to maintain or improve lake conditions. |
| Rarely | Occasional management | Some efforts exist, but frequency is low; lake may be impacted or recovering. |
| No | No observed management | Could indicate either: 1) **lack of monitoring/maintenance** (potential stress), or 2) **pristine/undisturbed conditions** (healthy natural state). |