

### **Activity 01: Choose the correct answer (03)**

1. Corrosion is defined as:  
**b) Chemical or electrochemical deterioration of metals 0.5**
2. Which of the following is an environmental factor affecting corrosion?  
**c) Medium pH 0.5**
3. Electrochemical corrosion occurs when a metal is in contact with:  
**c) A liquid electrolyte 0.5**
4. Rusting of steel is an example of:  
**b) Corrosion 0.5**
5. Which substance is an inorganic corrosion inhibitor?  
**b) Sodium chromate 0.5**
6. Green inhibitors are important because they are:  
**b) Environmentally friendly 0.5**

### **Activity 02: Write True or False (05)**

1. Corrosion causes material loss and economic damage. **True 0.5**
2. Corrosion only depends on environmental factors. **False 0.5**  
**Corrosion depends on material and environmental factors. 0.5**
3. Chemical corrosion involves a pure chemical reaction. **True 0.5**
4. A corrosion inhibitor increases the corrosion rate of metals. **False 0.5**  
**A corrosion inhibitor It decreases the corrosion rate. 0.5**
5. Organic inhibitors form a protective film on the metal surface. **True 0.5**
6. Tea leaves extract is one example of a green corrosion inhibitor. **True 0.5**
7. Green corrosion inhibitors are toxic and harmful to the environment. **False 0.5**  
**Green corrosion inhibitors are eco-friendly, non-toxic, and derived from natural sources. 0.5**

### **Activity 03 (05)**

#### **1. What is corrosion? 1**

Corrosion is the chemical or electrochemical deterioration of metals due to their interaction with the environment.

#### **2. Name two types of corrosion. 0.5**

- Chemical corrosion
- Electrochemical corrosion

### 3. What is a corrosion inhibitor? 1

A corrosion inhibitor is a substance that reduces or prevents the corrosion of metals when added in small amounts.

### 4. Translate into Arabic or French 2.5

English term	Arabic	Or	French
• Coatings	الطلاءات		Revêtements0.5
• Alloying	السيائك		Alliage0.5
• Rate of corrosion	معدل/سرعة التآكل		Vitesse de corrosion0.5
• Material loss	فقدان المادة		Perte de matériau0.5
• Protective layer	طبقة واقية		Couche protectrice0.5

### Activity 04: Passive Voice (03)

Rule:

Active: S1 + Verb + S2

Passive: S2 + to be + past participle + by + S1 1

Sentences:

A- The mechanic is fixing the car.

B- The car is being fixed by the mechanic. 1

A- She has finished the report.

B- The report has been finished by her. 1

### Activity 05: Change into indirect speech (04)

1. "I work in a bank." ⇒ He said that he worked in a bank. 1
2. "I must leave early today." ⇒ He said that he had to leave early that day. 1
3. "Where are you going tomorrow?" ⇒ He asked me where I was going the next day. 1
4. "Are you going to the beach today?" ⇒ She asked me if I was going to the beach that day. 1