

CONTINUOUS ASSESSMENT		: ASSIGNMENT	Total Marks: 100
TOPIC	<b>ARTIFICIAL LIGHTING</b>		
OBJECTIVE	To demonstrate understanding of the differences between traditional discharge lamps and modern LED lighting systems in terms of technology, performance, and sustainability.		
LEARNING OUTCOME	i. Identify and explain key characteristics of discharge and LED lamps. ii. Compare energy efficiency and sustainability between lighting technologies. iii. Apply knowledge to promote energy-conscious lighting practices.		
.NAME		REG. NUMBER	

### Task Description

You are required to design a **poster or infographic** that compares **Discharge Lamps** with **Light Emitting Diode (LED) Lamps**. Your visual presentation should highlight the **key differences, advantages, disadvantages and applications** of each type.

### Content Guidelines

Your poster/infographic must include the following:

1. **Title** – Clear and creative.
2. **Basic Working Principle** – How each lamp produces light.
3. **Comparison Table or Visual** – Show differences in:
  - o Energy efficiency
  - o Color rendering
  - o Luminous efficacy
  - o Lifespan
  - o Cost
  - o Environmental impact
4. **Applications** – Common usage areas (e.g., streets, offices, factories).
5. **Sustainability Message** – How lighting choice affects energy use and the environment (link to **SDG 7: Affordable and Clean Energy** or **SDG 11: Sustainable Cities and Communities**).
6. **References / Sources** – At least 2 reliable references.

### Format Requirements

- **Medium:** Canva, PowerPoint, or any suitable design tool.
- **Size:** A3 (portrait or landscape).
- **File Type:** PDF or JPEG.