

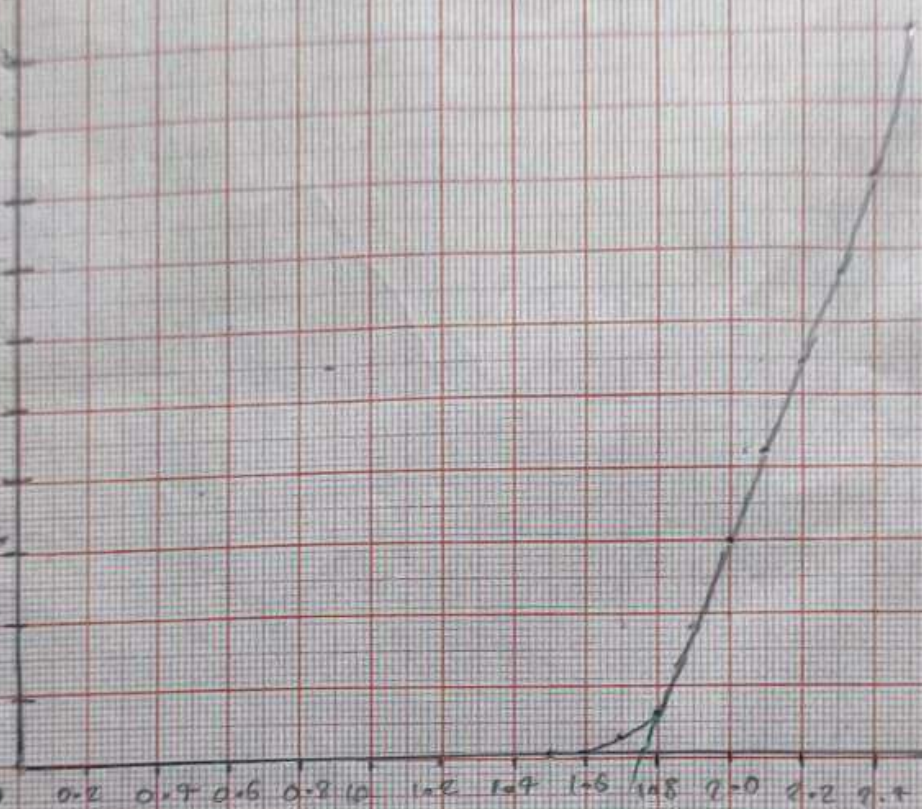
LED CHARACTERISTICS

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$I (mA)$

12
11
10
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0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 V



on some open set containing σ then

$$\int_C \vec{F} \cdot d\vec{r} = \iint_{\sigma} (\nabla \times \vec{F}) \cdot \vec{n} \, d\sigma$$

→ If \vec{F} is a force field the integral $\int_C \vec{F} \cdot d\vec{r}$ represents the work done.

→ If σ is of the form $z = g(x, y)$ then

$$\vec{n} = \frac{\partial z}{\partial x} \vec{i} - \frac{\partial z}{\partial y} \vec{j} + \vec{k}$$

for anticlockwise orientation with upward normal. and $\vec{n} = \frac{\partial z}{\partial x} \vec{i} + \frac{\partial z}{\partial y} \vec{j} - \vec{k}$

for clockwise orientation with downward normal.

to make progress w/o waiting for one to finish completely before the next starts.

Tasks overlap,
Eg: Multithreading, Multiprocessing, Asynchronous,
Time Sharing

Ans 2) Device Drivers

Bridge between OS and hardware devices. They handle various tasks to ensure smooth hardware operation.

1. Hardware Communication
2. Command Translation
3. Interrupt handling
4. Buffering and Data Transfer
5. Memory and Resource Management
6. Error Detection
7. Security

Ans 3) A process is an instance of a program that is currently executing. It includes
program code (instructions)
Data (variables, memory)
System resources (CPU, files)
Process Control info (registers, program counter)

A program is passive, while a process is active (running in memory)