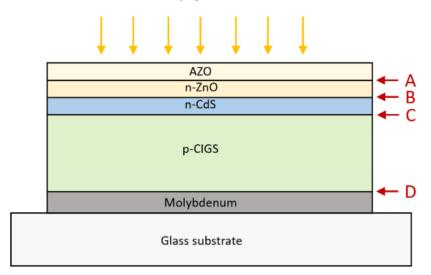
1.	Thin film solar cell technologies such as amorphous silicon, copper indium gallium selenide, and cadmium telluride belong to which generation?
	1st generation
	<ul><li>2<sup>nd</sup> generation</li></ul>
	○ 3 <sup>rd</sup> generation
	✓ Correct That is correct
	Thin film solar cells using direct bandgap materials are refered to as second generation solar cells.
2.	Amorphous silicon has a higher bandgap (1.7 eV) than crystalline silicon (c-Si) (1.1 eV)
	Which part of the spectrum is absorbed to a higher degree by the crystalline solar cell as compared to the amorphous silicon solar cell.
	Infrared
	Ultraviolet
	○ X-ray
	✓ Correct That is correct
	A lower bandgap material absorbs light at higher wavelength as compared to a material with a higher bandgap.

3. Which interface in the CIGS solar cell is the pn-junction?



- O D



## Correct

That is correct

The pn-junction is formed between the CIGS absorber layer and the CdS buffer layer. Unlike a silicon solar cell, the junction is a heterojunction, since it is a junction between two dissimilar semiconductors.