

EXAMPLE OF MCQ IN THE EXAM

Exercise 1: Multiple choice questions

- a) What is the typical thickness of n-type wafers used for solar cells?
- 90 μm
 - 120 μm
 - 200 μm
- b) What does NOCT (Nominal Operating Cell Temperature) mean?
- Radiation: 800 W m^{-2} , air temperature: 20°C , wind speed: 1 m s^{-1} , free mounting, V_{OC} conditions
 - Radiation: 1000 W m^{-2} , air temperature: 25°C , wind speed: 1 m s^{-1} , free mounting, V_{OC} conditions
 - Radiation: 800 W m^{-2} , air temperature: 20°C , wind speed: 1.5 m s^{-1} , free mounting, V_{OC} conditions
- c) What are typical (approximate) V_{OC} values for Al-BSF, PERC and Silicon heterojunction (SHJ) technologies?
- 680 mV (Al-BSF), 710 mV (PERC), 770 mV (SHJ)
 - 600 mV (Al-BSF), 640 mV (PERC), 700 mV (SHJ)
 - 640 mV (Al-BSF), 680 mV (PERC), 740 mV (SHJ)
- d) What are typical J_{SC} values for a SHJ single junction cell and a SHJ as bottom cell in a 2-terminal tandem device, respectively?
- 40 mA cm^{-2} and 40 mA cm^{-2}
 - 40 mA cm^{-2} and 20 mA cm^{-2}
 - 20 mA cm^{-2} and 40 mA cm^{-2}
- e) What is the typical thickness of anti-reflective coating (ARC) for solar cells?
- 50 nm
 - 70 nm
 - 100 nm