Course outline

Week 11: Assignment 3

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2021-10-13, 23:59 IST.

Three modules as shown below are connected in series. Find the resultant VM and IM of the setup.

Modules	VM (Volts)	IM (Ampere)
A	15	4.5
B	15.2	4.0
C	15.6	3.8

1)   VM = _____ V

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 45.8

1 point

2)   IM = _____ A

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 3.8

(Type: Numeric) 3.8

1 point

3)   A solar module of dimension (80 cm x 80 cm) produces a voltage of 4.5 V and a current upto 18 A. If the solar insolation is 1000 $(W/m)^2$, then calculate the efficiency of solar panel.

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 12,14
(Type: Range) 0.12,0.14

1 point

4)   The figure below shows the IV characteristics of a solar cell illuminated uniformly with solar power of 100 mW/cm^2. The solar cell has an area of 12 cm^2 and a fill factor of 0.7. The maximum efficiency (%) of the module is ___.
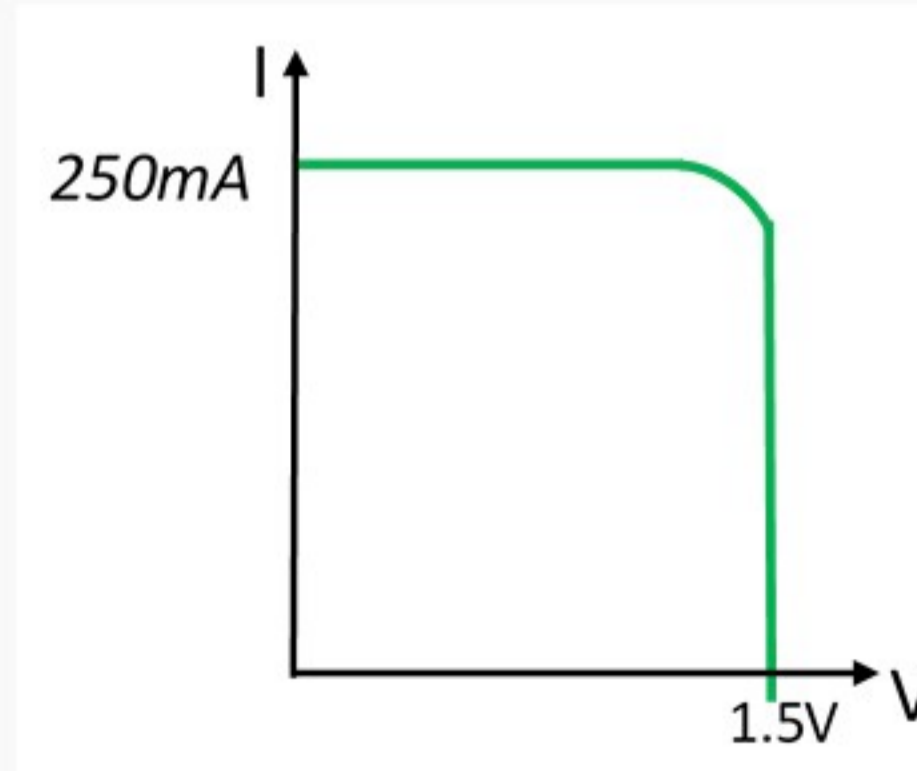
No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 20,23

1 point