Week 5 Assignment

The due date for submitting this assignment has passed. **Due on 2018-03-14, 23:59 IST.**

Submitted assignment

1) If a heat sink is made from the higher grades of aluminium, some FRHC will also be used. Why?

- Because copper is softer comparatively
- Because higher grades of aluminium have lower thermal conductivity
- FHRC Copper has better thermal conductivity
- All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

*All of the above*

2) In heat sinks where thermal conductivity should be not reduced by corrosion, what material will be used?

- FHRC Copper
- Fiber Reinforced Ceramides
- 5051 Aluminium
- Gold

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Gold*

3) What material is used to make the spring contact in the battery cell holders that are commonly found in remotes, handheld torch light etc?

- Stainless steel
- Copper
- Aluminium
- Brass-zinc alloy

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Stainless steel*

4) What is the term used to refer to the use of more than one Peltier cooler to achieve greater temperature difference?

1 point
5) In a Peltier Cooler, what is the relationship between the absorbed thermal load and the temperature difference?  
- Equal  
- No relation  
- Inversely proportional  
- Directly proportional  

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
Cascading

6) Which of these expressions is used to express the efficiency of the Peltier Cooler?  
- The output power by the heat given out by the hot side  
- The heat absorbed by the cold side by the input power  
- None of the above  
- The heat given out by the hot side divided by the heat absorbed by the cold side  

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
The heat absorbed by the cold side by the input power

7) In the figure, which of these shows a Parallel configuration of Peltier Coolers?  
- Fig 1 and Fig 2  
- Fig 2 only  
- Fig 2 and Fig 3  
- Fig 1 only  

No, the answer is incorrect.  
Score: 0
8) Typically, what material is used to make the functional element of the Peltier Cooler?

- Aluminium
- Ceramic Plate
- Brass
- Stainless steel

No, the answer is incorrect.
Score: 0

Accepted Answers:
Ceramic Plate

9) Three numbers of Peltier Cooler series 12706 are connected in “electrical” series. The specs of this TEC are Q=50W, V=12V, I=5A. Calculate the total voltage and input current needed.

- 36V 5A
- 12V 15A
- 36V 15A
- 250VA

No, the answer is incorrect.
Score: 0

Accepted Answers:
36V 5A

10) When will you use two fans in parallel?

- When simpler control is desired
- When more CFM is needed
- When less noise is desired
- When more pressure is needed

No, the answer is incorrect.
Score: 0

Accepted Answers:
When more CFM is needed