CHAPTER 13—THERMAL STRESSORS

Due Nov 19 at 1:59pm **Points** 10 **Questions** 5 **Time Limit** None

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	2,132 minutes	10 out of 10

(!) Correct answers are hidden.

Score for this quiz: **10** out of 10 Submitted Nov 15 at 8:05pm This attempt took 2,132 minutes.

Question 1	2 / 2 pts
The water vapor pressure of ambient air is 19 mmHg, and to speed is 1.7 m/s. Calculate the maximum evaporative heat in watts). (Assume skin temperature is 35°C; vapor pressur 42 mmHg., and a standard worker)	loss (Emax
O 30	
O -30	
O 232	
53	
O -232	
○ -53	

Question 2 2 / 2 pts

+14		
O -14		
350		
O 472		
-472		

Question 3	2 / 2 pts
If the mean radiant temperature (tr) in a glass-manufacturin 54°C, what is the radiant heat exchange (R) to a standard w kcal/hr (Assume a clothed worker with a skin temperature o	vorker in
O 150.5	
○ -150.5	
129.4	
O 24.4	
O -24.4	
○ -129.4	

Question 4 2 / 2 pts

speed is measured at 2.3 m/s.	Calculate heat exchange by convection (Assume skin temperature is 35°C and
O 39	
O -25	
O -39	
O 25	
47	
<u>-47</u>	

Question 5	2 / 2 pts
In a shop, a globe thermometer reads 34.0°C, air velocity is and ambient temperature is 30.5°C. Determine the mean retemperature (1°C = 5/9[°F – 32]).	
41.2	
O 26.8	
35.0	
O 23.3	

Quiz Score: 10 out of 10