Lab 13 - Thermal Stress

Due Nov 22 at 8am **Points** 10 **Questions** 10 **Time Limit** None

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	2,168 minutes	10 out of 10

(!) Correct answers are hidden.

Score for this quiz: **10** out of 10 Submitted Nov 15 at 8:40pm This attempt took 2,168 minutes.

Question 1	1 / 1 pts			
When using a heat stress monitoring station you record the forvalues:	ollowing			
NWB = 81.8 F				
GT = 124.1 F				
DB = 101.3 F				
What is the US Marine Corps heat stress flag condition?				
Red				
○ Yellow				
Black				
O White				
Green				

Question 2	1 / 1 pts
What is the estimated heat gain or loss from radiation, in W/to/from a clothed worker with normal skin temperature and the (radiant) temperature is 121 F?	
○ -63.6	
O 105	
O 114	
63.6	

Question 3	1 / 1 pts
What is the estimated heat gain or loss from convection, in V to/from a clothed worker with normal skin temperature if the temperature is 94 F and the wind speed is 2.4 miles per hour	ambient
-8.6	
· -7.8	
-2.7	
O 2.7	
O 7.8	

Question 4	1 / 1 pts

id an evaporat ts?	, a convective heat los .22 W/m^2, what is his

Question 5	1 / 1 pts
What is the maximum evaporative heat loss, in W/m^2, from evaporation from a clothed worker if the water vapor pressurs skin is 5.6 kPa, the ambient water vapor pressure is 6.4 kPa wind speed is 1.1 m/s?	ure on the
O 9.3	
O -9.3	
-5.9	
O 5.9	

Question 6 1 / 1 pts

	30 min	
	Normal Breaks (1)	
✓	55 min	
	4 breaks	
✓	3 Breaks	
	75 min	
	Non-emergency work should cease	
	5 breaks	
	2 Breaks	
	40 min	
ues	tion 7	1 / 1 pt
ues	tion 7	1/1;

32.1

30.4

86.6

Question 8	1 / 1 pts
What is an employee's Heart Rate Reso 62 years old and have a resting heart ra	, , , , , , , , , , , , , , , , , , , ,
O 12	
Not enough information to calculate	
84	
O 96	
	1 / 1 pto
If the WBGT is 26 C, a worker is wearin	
If the WBGT is 26 C, a worker is wearin and is working at a pace that yields 400 been exceeded?	g double layer woven clothing,
If the WBGT is 26 C, a worker is wearin	g double layer woven clothing,
	g double layer woven clothing,
If the WBGT is 26 C, a worker is wearing and is working at a pace that yields 400 been exceeded? Insufficient information to answer No	g double layer woven clothing,
If the WBGT is 26 C, a worker is wearing and is working at a pace that yields 400 been exceeded? Insufficient information to answer No Yes	g double layer woven clothing, watts, has the heat stress TLV 1 / 1 pts

O 0.	.0873	
2.	.46	
O 3.	.473	

Quiz Score: 10 out of 10