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## Chapter 2 HVAST-pankamechanical-and-electrical-systems-in-buildings-6e-janis

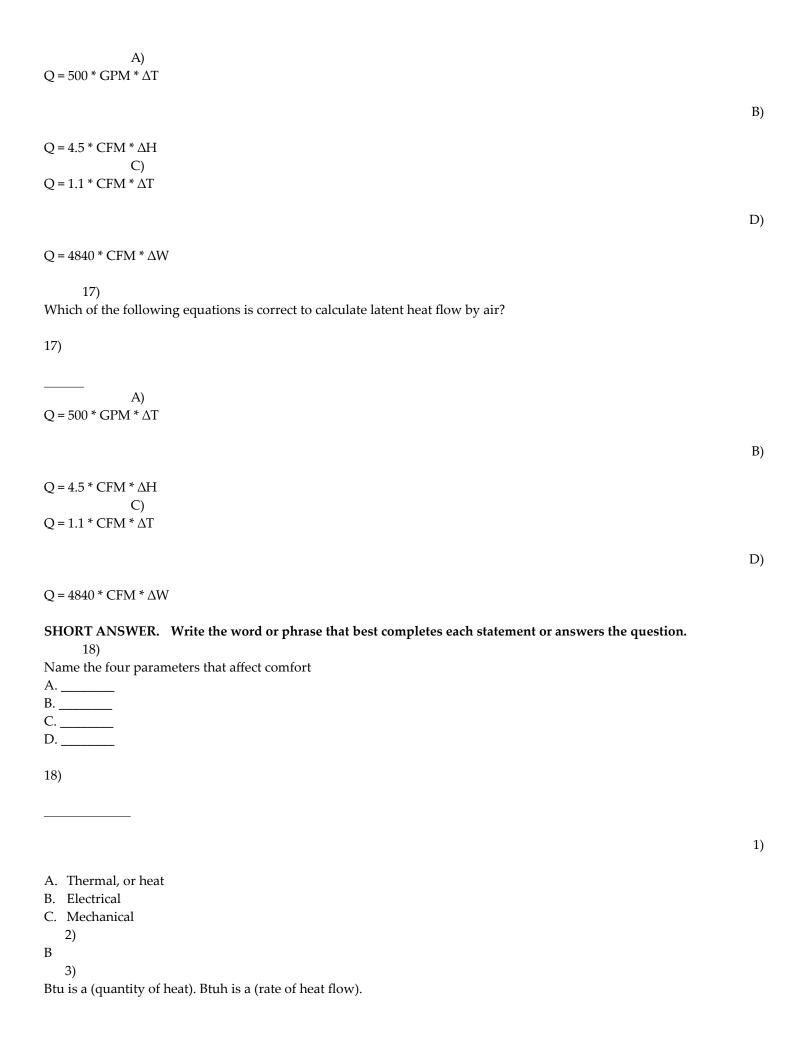
1)
Name the three energy forms (not fuels) used in building environmental systems
A
B C
C
1)
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.  2)
How many Btu are required to heat 2 lbs. of water by 4°F?
2)
A)
В
8
2 2
D
6
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.  3)
Btu is a (quantity of heat / rate of heat flow). Btuh is a (quantity of heat / rate of heat flow).
3)
4)
kW is a (quantity of electricity / rate of electric power). KWH is a (quantity of electricity / rate of electric power).
4)

Match these heating fuels with their likely utilization efficiency.  300% 100% 80%	
A. Natural gas% efficient B. Electric% efficient C. Electric heat pump% efficient	
5)	
6) List these heating fuels in order of their cost per mmBtu. Highest cost no. 1; next highest, no. 2; etc. A Natural gas B Electric heat pump C Propane D Electric resistance  6)	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.  7) Pick the two terms which are synonymous.	
7)	
A) Humidity ratio	-
Relative humidity	В)
	C)
Absolute humidity	
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.  8)	
Wet-bulb temperature is generally (higher / lower) than dry-bulb temperature.	
8)	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.  9)	
If wet-bulb temperature is equal to dry-bulb temperature, the air is Select all that apply.	

9)	
A)	
Isenthalpic.	
	В)
Adiabatically conditioned.	·
C)	
100% relative humidity.	
	D)
Saturated.	
10)	
A horizontal move to the right on the psychrometric chart corresponds to which of the following? Select all that apply.	
10)	
A)	
A decrease in specific volume.	
	B)
An increase in enthalpy.	
C) A decrease in density.	
	D)
A decrease in humidity ratio.	
E) A decrease in relative humidity.	
	F)
A decrease in dewpoint.	
11)	
A horizontal move to the left on the psychrometric chart corresponds to which of the following? Select all that apply.	
11)	
A) A decrease in specific volume.	

	В)
An increase in enthalpy.	
C) A decrease in density.	
A decrease in delisity.	
	D)
A decrease in humidity ratio.	
E) A decrease in relative humidity.	
decided in relative relatively.	
	F)
A decrease in dewpoint.	
12)	
A vertical move upward on the psychrometric chart corresponds to which of the following?	
Select all that apply.	
12)	
A) A decrease in specific volume.	
•	D.
	B)
An increase in enthalpy.	
C) A decrease in density.	
	D)
	D)
A decrease in humidity ratio.  E)	
A decrease in relative humidity.	
	F)
A J	,
A decrease in dewpoint.	
13) A vertical mayor downward on the psychrometric chart corresponds to which of the following?	
A vertical move downward on the psychrometric chart corresponds to which of the following? Select all that apply.	
13)	
-/	
A)	
A decrease in specific volume.	

An increase in enthalpy.	
C)	
A decrease in density.	
	D)
	D)
A decrease in humidity ratio.	
E)	
A decrease in relative humidity.	
	F)
	,
A decrease in dewpoint.	
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the ques	stion.
14)	
Fill in the right units of measure for these quantities	
A. Air pressure in a duct	
B. Water pressure in a pipe	
C. Air velocity in a duct	
D. Water velocity in a pipe	
14)	
<del></del>	
MILITIDIE CHOICE Change the age alternative that had acqualate the statement or agreement to a	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the q	uestion.
15)	uestion.
	uestion.
15) Which of the following equations is correct to calculate sensible heat flow by air?	uestion.
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Which of the following equations is correct to calculate sensible heat flow by air?  15)  A) Q = 500 * GPM * ΔT  Q = 4.5 * CFM * ΔH C) Q = 1.1 * CFM * ΔT  Q = 4840 * CFM * ΔW  16) Which of the following equations is correct to calculate heat flow by water?	B)
The state of the following equations is correct to calculate sensible heat flow by air?  The state of the following equations is correct to calculate sensible heat flow by air?  A)  Q = 500 * GPM * ΔT  Q = 4.5 * CFM * ΔH  C)  Q = 1.1 * CFM * ΔT  Q = 4840 * CFM * ΔW  16)	B)



4)		
kW is a (rate of electric p	ower). KV	VH is a (quantity of electricity).
5)	,	<b>1</b>
A. Natural gas	80	% efficient
B. Electric		_% efficient
C. Electric heat pump		
6)		_
A. 3 Natural	gas	
	heat pump	9
C. 1 Propane		
-	resistance	
7)		
A, C		
8)		
Wet-bulb temperature is	generally	(lower) than dry-bulb temperature.
9)		
C, D		
10)		
B, C, E		
11)		
A		
12)		
В, С		
13)		
A, D, E, F		
14)		
A. in. w.c.		
B. ft. of head or psi		
C. ft./min.		
D. ft./sec.		
15)		
C		
16)		
A		
17)		
D		
18)		
A. Temperature		
B. Air flow		
C. Humidity		
D. Radiation		