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MULTIPLE CHOICE

1.				flows of c.	ling systems and components, occupants, and the f heat, air and moisture. Construction Building		
	ANS: D	PTS:	1	REF:	Building Science		
2.		odolog		ealthy, c	vides contractors and future homeowners with a comfortable, and durable homes. House as a System Systematic Housing		
	ANS: C	PTS:	1	REF:	Building Science		
3.	One calorie is equal a. 4.184 b. 14.487	to	joules.		32.19 49.28		
	ANS: A	PTS:	1	REF:	Principles of Energy		
4.	days can be seen as the average difference between inside and outside temperatures over the course of a day.						
	a. Average temperab. Heating degree	iture			Average degree Cooling degree		
	ANS: B	PTS:	1	REF:	Principles of Energy		
5.	Heat moves into and out of buildings by three different routes: conduction,, and radiation. a. induction						
	b. convection ANS: B	PTS:	1		equilibrium Heat Flow		
6.	Conduction is the moa. solid b. liquid	ovemen	t of heat throug	c.	 metal fiber		
	ANS: A	PTS:	1	REF:	Heat Flow		
7.	Perhaps the most con a. a pipe b. copper wiring	nmon p	roduct to be la	c.	ith an R-value is water insulation		
	ANS: D	PTS:	1	REF:	Heat Flow		
8.	Windows are labeled with a, which is the thermal transmission or conductance rather than the resistance of a material.						
	a. T-valueb. U-value				W-value Y-value		
	ANS: B	PTS:	1	REF:	Heat Flow		

9.		ture insid	de the home is		3. Treat the wall as having continuous insulation (no and the outside air temperature is 89°F. What is the	
	a. 113.08 Btu/hr	C			1190.11 Btu/hr	
	b. 125.66 Btu/hr			d.	2121.60 Btu/hr	
	ANS: B	PTS:	1	REF:	Heat Flow	
10.	A home's seasonal ha. Uaverage b. Raverage	eating l	osses can be ca	c.	using the HDD and the U-value R-value	
	ANS: A	PTS:	1	REF:	Heat Flow	
11.	occur when air heated and cooled.	(or ano	ther medium) o	continuo	ously circulates around in an enclosed space as it is	
	a. Circularsb. Convective loop	os			Enclosed loops Circular trails	
	ANS: B	PTS:	1	REF:	Heat Flow	
12.	All the solar energy characteristics.	that hits	an object is ei	ther refl	ected, absorbed, or, depending on its particular	
	a. increasedb. rejected				transmitted stored	
	ANS: C	PTS:	1	REF:	Heat Flow	
13.	is one of the ma. Outside temperary b. Air direction	_	ortant forces th	c.	ffect building performance. Moisture flow Air flow	
	ANS: D	PTS:	1	REF:	Air Flow	
14.	is a critical electout of homes is a ke a. Air b. Moisture			ilding p c.	derstanding how to manage its movement into and uzzle. Heat Energy	
	ANS: B	PTS:	1	REF:	Moisture Flow	
15.	Most homes built before the 1930s a. had little or no insulation and leaked badly b. were over-insulated and never leaked c. were unable to "breathe" d. could not dry out easily if they got wet					
	ANS: A	PTS:	1	REF:	Moisture Flow	
16.	keep a house comfor		moisture o		ir buildings, the proper level of water vapor helps	
	a. latentb. external				bulk accumulated	
	ANS: C	PTS:	1	REF:	Moisture Flow	

17.	The amount of water vapor that diffuses through a building assembly is affected by the following factors: the chemical composition of the building materials, the thickness of the building materials, and the on each side of the building assembly.						
	a. bulk moisture				absolute humidity heat index		
	b. ventilation						
	ANS: C	PTS:	1	REF:	Moisture Flow		
18.	Materials can be sep semi-permeable, me a. 0.1 perm or less b. greater than 0.1 c. greater than 1.0 d. greater than 10.0	perm an	d less than 1.0	perm	s on the basis of their permeance. One class, vapor		
	ANS: C	PTS:	1	REF:	Moisture Flow		
19.	VDRs are often reco a. on the interior in b. on the interior in c. in most mixed c d. on the exterior i	n warm l n cold cli limates	numid climates imates				
	ANS: B	PTS:	1	REF:	Moisture Flow		
20.	Relative humidity is a. vapor b. maximum moist	_	centage of the _	c.	at the air can hold at a specific temperature. bulk moisture minimum moisture		
	ANS: B	PTS:	1	REF:	Moisture Flow		
21.	All air has a dew po a. temperature b. humidity level	int, the _	at which v	c.	ondenses into water droplets. energy level moisture level		
	ANS: A	PTS:	1		Condensation and the Dew Point		
	ANS. A	115.	1	KEI.	Condensation and the Dew 1 ont		
22.	Dry-bulb temperature is the temperature of air indicated on a(n) and does not account for the effects of humidity.						
	a. sling thermome				ordinary thermometer		
	b. aspirating psych	rometer		d.	dry thermometer		
	ANS: C	PTS:	1	REF:	Condensation and the Dew Point		
23.	A grain is a small unit of weight; one pound contains grains.						
	a. 1,000 b. 6,000				7,000 10,000		
	ANS: C	PTS:	1		Condensation and the Dew Point		
24.	The building envelo			envelope, is the dividing line between conditioned			
	a. barrier	. r	. 110 450		dividing		
	b. thermal			d.	sealing		

25. Winter temperatures between ____°F and 77°F with RH levels ranging between 22% and 70% are generally considered to be comfortable for most people.

REF: The Building Envelope

a. 58 c. 65 b. 62 d. 68

PTS: 1

ANS: C PTS: 1 REF: Indoor Comfort

MATCHING

ANS: B

Match each item with a statement below.

. First law of thermodynamics d. Second law of thermodynamics

. Vapor diffusion retarder e. Potential energy

c. Radiation f. Stack effect

1. Stored energy, like a gallon of gasoline or a ton of coal.

2. Energy is neither created nor destroyed.

3. Heat moves from high temperature regions to low temperature regions.

4. Transfer of heat from one surface to another via electromagnetic waves.

5. Results because cold air is denser than hot air, so hot air rises.

6. Reduces the amount of moisture that diffuses through building materials into the wall structure.

1. ANS: E PTS: 1 REF: Principles of Energy

2. ANS: A PTS: 1 REF: Principles of Energy

3. ANS: D PTS: 1 REF: Principles of Energy

4. ANS: C
5. ANS: F
PTS: 1
REF: Heat Flow
REF: Air Flow

6. ANS: B PTS: 1 REF: Moisture Flow