## **Conceptual Physics Fundamentals 1st Edition Hewitt Test Bank**

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Name\_\_\_\_\_

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

<ol> <li>An atomic mas</li> <li>A) a hydrog</li> <li>B) a carbon</li> <li>C) an electro</li> <li>D) a proton.</li> <li>E) a uraniur</li> <li>Answer: B</li> <li>Explanation:</li> </ol>	es unit (amu) is 1/12 en atom. atom. nn. n atom. A) B) C) D) E)	the mass of			1)
2) The chemical p A) electrons Answer: A Explanation:	A) B) C)	come mostly from its B) protons.	C) neutrons	5.	2)
3) If one neutron A) hydroger Answer: C Explanation:	is added to a helium n. B) lithium. A) B) C) D) E)	nucleus, the result is C) helium.	D) beryllium.	E) boron.	3)
<ul><li>4) Compared to the body of a new bod</li></ul>	ne atoms that make o oorn baby are age. A) B) C)	up the body of an elderl B) newer.	y person, the atoms that C) actually	make up the older.	4)

5)

6)

7)

## 5) If an astronaut landed on a planet made of antimatter, there would be an explosion and

A) the planet would annihilate.

B) the astronaut would annihilate.

C) the astronaut and an equal amount of the planet would both annihilate.

D) an amount of planet matter equal to that of the astronaut would annihilate.

Answer: C

Explanation: A)

- B)
- C)
- D)

6) A positron orbiting an antiproton would make up an atom of

A) positronium.

B) anti-hydrogen.

C) anti-helium.

D) unobtainium.

E) none of these

Answer: B

Explanation: A)

B) C)

D)

E)

7) The smallest particle of those listed below is

A) a quark.

B) a neutron.

C) a molecule.

D) an atom.

E) a proton.

Answer: A

- Explanation: A)
  - B) C)
  - D)
  - E)

8) Which of these statements is true?

A) Molecules form atoms that in turn determine chemical properties of a substance.

- B) Chemical elements are made up of about 100 distinct molecules.
- C) A molecule is the smallest particle that exists.
- D) Molecules are the smallest subdivision of matter that still retains chemical properties of a substance.

E) None of these statements is true.

Answer: D

- Explanation: A)
  - B) C)
  - D)
  - E)

8)

9) 9) The air in this room has A) energy. B) weight. C) mass. D) all of these E) none of these Answer: D Explanation: A) B) C) D) E) 10) 10) A force that determines the chemical properties of an atom is a A) electrical force. B) nuclear force. C) gravitational force. D) friction force. E) none of these Answer: A Explanation: A) B) C) D) E) 11) \_\_\_\_\_ 11) Atoms heavier than hydrogen were made by A) radioactivity. B) radiant energy conversion. C) photosynthesis. D) nuclear fusion. E) none of these Answer: D Explanation: A) B) C) D) E) 12) \_\_\_\_\_ 12) Compared to the energy it takes to separate oxygen and hydrogen from water, the amount of energy given off when they recombine is A) the same. B) slightly less. C) much more. D) slightly more. E) much less. Answer: A Explanation: A) B) C) D) E)

13) The volume of A) protons. Answer: C Explanation:	A) B) C)	from its B) neutrons	C) electrons.	13)
14) Which of the fo A) air B) granite C) beach sau D) cake E) None. Al	ollowing is not a mixt nd I of the above choices	ure? are mixtures.		14)
Answer: E Explanation:	A) B) C) D) E)			
15) What makes an A) the numb B) the numb C) the numb D) the total E) none of t	n element distinct? per of neutrons per of protons per of electrons mass of all the particle hese	es		15)
Answer: B Explanation:	A) B) C) D) E)			
16) In a closed bot same temperat with the greate	tle are a certain numb ture and internal press er number of molecule	er of hydrogen molecules. In an id sure are a certain number of nitrog es is the one containing B) bydrogen	dentical closed bottle at the gen molecules. The bottle	16)
Answer: C Explanation:	A) B) C)	by Hydrogen.		

17) \_\_\_\_\_ 17) In an electrically neutral atom, the number of protons in the nucleus is balanced by an equal number of A) quarks. B) orbital electrons. C) neutrons. D) all of these E) none of these Answer: B Explanation: A) B) C) D) E) 18) Which of these atoms has the greatest amount of electrical charge in its nucleus? 18) A) carbon B) uranium C) gold D) helium E) iron Answer: B Explanation: A) B) C) D) E) 19) 19) Nuclei of atoms that make up a newborn baby were made in A) the mother's womb. B) the food the mother eats before giving birth. C) the Earth. D) ancient stars. E) none of these Answer: D Explanation: A) B) C) D) E) 20) \_\_\_\_\_ 20) To change mercury into gold, a pair of protons must be A) added to the gold nucleus. B) removed from the mercury nucleus. C) removed from the gold nucleus D) added to the mercury nucleus. E) None of the above is true. Answer: E Explanation: A) B) C) D) E)

21) If a pair of helium nuclei are fused together, the result is

A) helium isotope.

- B) beryllium.
- C) lithium.
- D) boron.
- E) carbon.

Answer: B

Explanation: A)

- B)
- C)
- D)
- E)

22) Which of the following statements is true?

- A) There are only about 100 different kinds of atoms that combine to form all substances.
- B) An atom is the smallest particle known to exist.
- C) A large atom can be photographed with the aid of an ordinary microscope.
- D) There are thousands of different kinds of atoms that account for a wide variety of substances.
- E) None of these statements are true.

Answer: A

Explanation: A)

B) C) D) E)

23) The reason a granite block is mostly empty space is that the atoms in the granite are

- A) held together by electrical forces.
- B) in perpetual motion.
- C) invisible.

D) mostly empty space themselves.

E) not as close together as they could be.

Answer: D

Explanation: A)

- B) C) D)
- E)

## 24) If a gram of antimatter meets a kilogram of matter, the amount of mass to survive is

24)

23)

A) 1 kilogram. B) 1 gram. C) 999 grams. D) 1.1 kilogram. Answer: C

Explanation: A)

- B)
  - C)
  - D)

21) \_\_\_\_\_

22) \_\_\_\_\_

25) If two protons are added to an oxygen nucleus, the result is

A) nitrogen.

- B) heavy oxygen.
- C) fluorine.
- D) sodium.
- E) neon.

Answer: E

Explanation:

B) C) D)

A)

- D)
- E)
- - A) the United States.
  - B) the whole world.
  - C) a large auditorium.
  - D) a large city.
  - E) none of these

Answer: B

- Explanation: A) B)
  - C)
    - D)
    - E)

27) Brownian motion has to do with the

A) first direct measurement of atomic motion.

- B) rhythmic movements of atoms in a liquid.
- C) size of atoms.

D) random motions of atoms and molecules.

E) atomic vibrations.

Answer: D

Explanation:	A)
•	B)
	C)

D)

E)

28) Which has the greatest number of protons in its nucleus?

A) mercury		B) lead.	C) gold.	D) silver.
Answer: B				
Explanation:	A)			
	B)			
	C)			
	D)			

27)

28)

29) The weight of	matter come	s mostly from its			29)
A) neutrons		B) protons.	C)	electrons.	
Answer: B					
Explanation:	A)				
	B)				
	C)				
20) Assuming all t	bo atoms ove	alod by Julius Caosar i	n his last dving broath a	ra still in the atmosphere	20)
then we proba	hly breathe o	one of those atoms with	i each	re sum in the atmosphere,	30)
A) ten vears					
B) single br	eath.				
C) month.	out in				
D) dav.					
E) It depend	ds—some pec	ple still breathe a few o	of Caesar's atoms every	day, while others	
wouldn't	breathe one	for an entire year.	5	<u>,</u>	
Answer: B					
Explanation:	A)				
	B)				
	C)				
	D)				
	E)				
31) In our part of t	he universe,	antimatter is			31)
A) long-live	ed.	B) non-existent.	C) short-lived.	D) plentiful.	
Answer: C					
Explanation:	A)				
	B)				
	C)				
	D)				
32) What is the mo	olecular mass	s of a water molecule?			32)
A) 10 amu					·
B) 18 amu					
C) 15 amu					
D) 12 amu					
E) None of	these. It depe	ends on the temperature	е.		
Answer: B					
Explanation:	A)				
	B)				
	C)				
	D) E)				
	L)				

<ul> <li>33) How many pr</li> <li>red when ther</li> <li>A) 1</li> <li>B) 2</li> <li>C) 3</li> <li>D) 4</li> <li>E) But prot</li> </ul>	otons s e is an e	hould be added to electric current the	o the nuclei of oxygen rough it?	atoms so the resultin	ng gas will glow	33)
			icted, not added.			
Explanation:	A) B) C) D) E)					
34) Which of thes	e atoms	has the greatest r	number of electrons?			34)
A) carbon		B) helium	C) gold	D) uranium	E) iron	
Answer: D Explanation:	A) B) C) D) E)					
35) How many di	fferent	elements are in a	water molecule?			35)
A) one		B) two	C) three	D) four	E) none	
Answer: B Explanation:	A) B) C) D) E)					
<ul><li>36) A factor that u is its</li><li>A) composi</li><li>B) tempera</li></ul>	usually tion. ture.	determines wheth	er a substance is in th	e solid, liquid, gaseo	us, or plasma state	36)
C) atomic s	hell cor	itiguration.				
E) none of	these					

Answer: B

Explanation: A)

- B) C) D)

  - E)

37) Which of the following are electrically neutral?

A) neutron

- B) ion
- C) proton
- D) electron
- E) none of these

Answer: A

Explanation: A)

- B) C) D)
- E)

A) still not be able to see or photograph an atom.

B) be able to photograph individual atoms, even though we couldn't see them.

C) be able to see individual atoms.

Answer: A

- Explanation: A)
  - B)

C)

39) When carbon and oxygen atoms combine, energy is

A) given off by the reaction.

B) taken in by the reaction.

C) not involved.

Answer: A

Explanation: A)

B) C)

40) Which of these atoms has the most mass?

A) lead

B) iron

C) hydrogen

D) uranium

E) All have the same mass.

Answer: D

Explanation: A)

- B)
  - C)
    - D) E)

40) \_\_\_\_\_

39) \_\_\_\_

41) A molecule has	3		41)
A) energy.			
C) mass.			
D) all of thes	se		
E) none of th	nese		
Answer: D			
Explanation:	A) B)		
	C)		
	D)		
	E)		
<ul><li>42) If two protons</li><li>A) helium.</li><li>B) neon.</li><li>C) nitrogen.</li><li>D) carbon.</li></ul>	are removed from an oxygen nucleus,	the result is	42)
E) positively	y charged oxygen.		
Answer: D			
Explanation:	A)		
	в) С)		
	D)		
	E)		
43) Compared to th	he mass of a hydrogen atom, the mass	of an oxygen atom is	43)
A) 12 times a	as great.	B) 16 times as great.	
C) 8 times as	s great.	D) appreciably more than 16 times as great.	
Answer: B	<b>A</b> )		
Explanation.	B)		
	C)		
	D)		
<ul><li>44) Solid matter is</li><li>A) atoms are</li><li>B) of gravita</li><li>C) of nuclear</li></ul>	mostly empty space. The reason solids e constantly vibrating, even at absolute ational forces. r forces.	don't fall through one another is because zero.	44)
D) of electric E) none of th	ai forces. nese		
Answer: D			
Explanation:	A)		
	в)		
	D)		
	E)		

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Answer Key Testname: C2

1)	В
2)	А
3)	С
4)	А
5)	С
6)	В
7)	A
8)	D
9)	D
10)	A
11)	D
12)	A
13)	С Г
14)	E D
10)	ь С
10)	D
17)	D R
10)	Л
20)	F
20)	B
22)	A
23)	D
24)	С
25)	E
26)	В
27)	D
28)	В
29)	В
30)	В
31)	С
32)	В
33)	В
34)	D
35)	В
36)	В
37)	A
38) 20)	A A
37) 10)	А
40) 11)	ס
41) 12)	ם
42) /2)	B
43) 4/1	D
77)	

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