1021_1st Exam_1021023

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

A) ¹⁸ O-	B) ¹⁸ O+	C) ¹⁵ N ³⁺	D) ¹⁵ N ³ -	E) ¹⁵ Ne ³⁺
Answer: D				
2) How many significant f	igures are in 4500000			
A) 6	B) 3	C) 5	D) 4	E) 7
Answer: E				
3) The compound, CIO , is	named			
A) chlorine monoxide				
C) hypochlorite.		D) chlorite.		
Answer: A				
4) The atomic number of a	n atom of ¹⁵ O is			
A) 23	B) 9	C) 7	D) 8	E) 15
Answer: D				
5) A person weighs 77.1 kg	g. What is his weigh	t in pounds?		
A) 35.0 pounds	B) 154 pounds	C) 30.8 pounds	D) 170 pounds	E) 193 pounds
Answer: D				
6) Ammonia is an example	eof			
A) a compound.		B) a he	terogeneous mixture.	
C) an element.		D) a ho	mogeneous mixture.	
Answer: A				
7) What decimal power do	es the abbreviation (u represent?		
A) 1 × 10-12		C) 1 × 10-15	D) 1 × 10 ⁻³	E) 1 × 10 ⁻⁹
Answer: B		·	,	·
8) Which of the followingA) copper building m	•	•		
r) copper building n	later lais develop a gi			
B) a match burns C) rubbing alcohol ev	/aporates			
B) a match burns C) rubbing alcohol ev D) Both A and B are e	examples of chemica			
 B) a match burns C) rubbing alcohol ev D) Both A and B are e E) All of the above an 	examples of chemica			
B) a match burns C) rubbing alcohol ev D) Both A and B are e	examples of chemica			
 B) a match burns C) rubbing alcohol ev D) Both A and B are e E) All of the above an 	examples of chemica re examples of chemi	ical change.		
 B) a match burns C) rubbing alcohol ev D) Both A and B are e E) All of the above an Answer: D 	examples of chemica re examples of chemi	ical change.	%	D) 72.07%

 10) Which of the following are examples of intensive A) mass B) density C) volume D) None of the above are examples of intensive E) All of the above are examples of intensive p 	ve properties.		
 11) How many moles of PI₃ contain 2.55 × 10²⁴ iodir A) 4.23 moles PI₃ B) 1.41 moles PI₃ C) 12.7 moles PI₃ D) 2.82 moles PI₃ E) 7.87 moles PI₃ Answer: B 	ne atoms?		
12) Identify an anion.A) An atom that has lost an electron.C) An atom that has gained a proton.Answer: D		An atom that has lost a ne An atom that has gained a	
 13) Which of the following elements is a metalloid? A) C B) Sb Answer: B 	C) Br	D) Co	E) Xe
 14) How many atoms of oxygen are in 2.50 moles of A) 4.52 x 10²⁴ atoms B) 7.53 x 10²³ atoms C) 5.02 x 10²³ atoms D) 1.51 x 10²⁴ atoms E) 3.01 x 10²⁴ atoms Answer: E 	CO ₂ ?		
15) A blueberry scone is an example ofA) an element.C) a homogeneous mixture.Answer: B		a heterogeneous mixture. a compound.	
 16) How many moles are in 2.16 x 10²⁴ atoms of gold A) 3.59 moles B) 6.08 moles Answer: A 	d? C) 0.359 moles	s D) 35.9 moles	E) 1.79 moles
17) Convert 3 μm to meters. A) 3 × 10 ⁻⁹ m B) 3 × 10 ⁻³ m Answer: C	C)	3 × 10-6 m	D) 3 × 106 m

18) Identify the compound with covalent bonds.A) LiB) NaCI	C) CH4	D) Ar	E) KBr
Answer: C			
19) Which of the following is a molecular compo A) SrCl ₂ B) LiCN	und? C) LiOH	D) P4O ₁₀	E) ZnS
Answer: D			
20) An atom of ¹³¹ Xe contains protons A) 54 B) 185	C) 131	D) 77	E) 123
Answer: A			
21) How many significant figures are in 5.206 x 1 A) 8 B) 5	0 ⁴ m? C) 7	D) 4	E) 3
Answer: D			
22) What symbol is used to represent the factor 1	0-1?		
A) M B) d	C) µ		D) m
Answer: B			
23) What is the empirical formula for C ₈ H ₁₆ O ₄ ′ A) CHO B) C ₂ H ₄ O	? C) C ₂ H ₅ O	D) CHO ₂	E) CH ₂ O
Answer: B			
24) Which of the following elements is classified			
A) germanium B) iodine		anium	D) calcium
-		anium	D) calcium
 A) germanium B) iodine Answer: A 25) Which of the following elements is a halogen 	C) ur. ?		
 A) germanium B) iodine Answer: A 25) Which of the following elements is a halogen A) F B) O 	C) ur	anium D) Ar	D) calcium E) Sb
 A) germanium B) iodine Answer: A 25) Which of the following elements is a halogen 	C) ur. ?		
 A) germanium B) iodine Answer: A 25) Which of the following elements is a halogen A) F B) O 	C) ur. ?		
 A) germanium B) iodine Answer: A 25) Which of the following elements is a halogen A) F B) O Answer: A 26) Identify the compound with ionic bonds. 	C) ur ? C) Ag	D) Ar	E) Sb
 A) germanium B) iodine Answer: A 25) Which of the following elements is a halogen A) F B) O Answer: A 26) Identify the compound with ionic bonds. A) O₂ B) CO Answer: D 	C) ur ? C) Ag C) H ₂ O	D) Ar D) NaBr	E) Sb E) Ar
 A) germanium B) iodine Answer: A 25) Which of the following elements is a halogen A) F B) O Answer: A 26) Identify the compound with ionic bonds. A) O₂ B) CO 	C) ur ? C) Ag C) H ₂ O	D) Ar D) NaBr	E) Sb E) Ar
 A) germanium B) iodine Answer: A 25) Which of the following elements is a halogen A) F B) O Answer: A 26) Identify the compound with ionic bonds. A) O₂ B) CO Answer: D 27) Which of the following contains the MOST at 	C) ur ? C) Ag C) H2O toms? You shouldn't i	D) Ar D) NaBr need to do a calculatio	E) Sb E) Ar on here.
A) germaniumB) iodineAnswer: A25) Which of the following elements is a halogen A) FB) OAnswer: A26) Identify the compound with ionic bonds. A) O_2 26) Identify the compound with ionic bonds. A) O_2 B) COAnswer: D27) Which of the following contains the MOST at A) 10.0 g ArB) 10.0 g Ba	C) ur C) Ag C) H2O toms? You shouldn't t C) 10.0 g Rb	D) Ar D) NaBr need to do a calculatio	E) Sb E) Ar on here.
 A) germanium B) iodine Answer: A 25) Which of the following elements is a halogen A) F B) O Answer: A 26) Identify the compound with ionic bonds. A) O₂ B) CO Answer: D 27) Which of the following contains the MOST at A) 10.0 g Ar B) 10.0 g Ba Answer: E 28) Which of the following exists as a diatomic mA) argon B) magnesium 	C) ur C) Ag C) H ₂ O toms? You shouldn't i C) 10.0 g Rb holecule? C) carbon B) an	D) Ar D) NaBr need to do a calculatio D) 10.0 g Mg	E) Sb E) Ar on here. E) 10.0 g Li E) phosphorus

30) How many significar 57.5 + 0.9933	nt figures are there in the $3 + 32 = 2$	answer for the follow	ving problem?	
A) one	B) two	C) thr	ee	D) four
Answer: B				
A) MgSO ₄ B) Cal ₂ C) SF ₆ D) COS	ng contains BOTH ionic a ove contain both ionic and			
32) Determine the mass (A) 866 g Answer: A	of an object that has a volu B) 98.37 g	ume of 88.6 mL and a C) 78.8 g	a density of 9.77 g/m D) 0.110 g	L. E) 9.07 g
33) Identify the crystallinA) plasticAnswer: E	ne solid. B) glass	C) water	D) bleach	E) table salt
34) Which one of the foll A) iron Answer: D	owing elements is a poor B) lead	conductor of heat an C) cop	-	D) selenium
35) Write a possible mol	ecular formula for $C_4H_4C_4$	Э.		
A) C ₂₄ H ₂₄ O ₆	B) C ₁₂ H ₁₂ O ₂	C) C8	H ₈ O	D) C ₂ H ₂ O
Answer: A				
36) What mass (in kg) do A) 0.632 kg Answer: E	bes 5.01 moles of iron hav B) 0.122 kg	e? C) 0.820 kg	D) 0.352 kg	E) 0.280 kg
 37) Isotopes differ in the A) gamma particle B) electrons. C) protons and ele D) protons. E) neutrons. Answer: E 	2S.			
38) What mass (in g) doe A) 211 g Answer: E	es 3.99 moles of Kr have? B) 476 g	C) 144 g	D) 240 g	E) 334 g
39) Cesium belongs to th A) alkaline earth r C) alkali metal Answer: C	ne group of the p netal		ole gas Iogen	

40) How many protons are in titanium? A) 25 B) 25.9 Answer: E

C) 26

E) 22

D) 47.9

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