

SHIFR

**Andijon viloyati Marhamat tumani xalq ta'lim bo'limiga
qarashli _____ maktab ____ sinf o'quvchisi
_____ning _____
fanidan yozgan test javoblari**

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Fan olimpiadasi

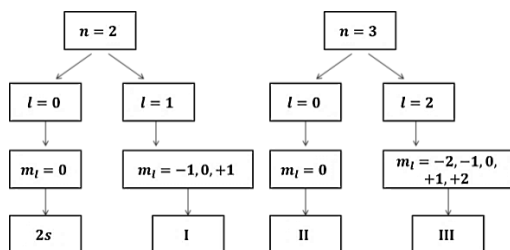
Kimyo 9 – sinflar uchun test

- 1.** Quyida berilganlardan tog'risini aniqlang.

Orbital	l	m_l
s	0	0
p	1	-1,0,+1
d	2	-2,-1,0,+1,+2

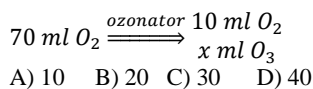
- A) I B) I,II C) II,III D) I,II,III

2. Quyida jadvalda berilgan I,II va III kataklar o'rniga mos keluvchilarni aniqlang

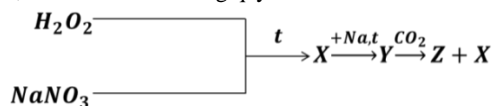


- | | I | II | III |
|----|------|------|------|
| A) | $2p$ | $3p$ | $3d$ |
| B) | $3s$ | $3p$ | $3s$ |
| C) | $2p$ | $3s$ | $3d$ |
| D) | $3s$ | $3s$ | $3p$ |

3. Quyidagi sxemadan x ni toping



4. X,Y va Z moddalarning qaysi blari ikki atomli?



- I. X II. Y III. Z**

- A) I. B) I va III C) II va III D) I,II,II

5. X,Y va Z moddalarni aniqlang

Tuz	Parchalanish mahsuloti
X	Tuz
Y	Metal oksidi
Z	Metal

- | | X | Y | Z |
|----|--------------|--------------|-------------------|
| A) | Kaliy nitrat | Rux nitrat | Simob (II) nitrat |
| B) | Rux nitrat | Kaliy nitrat | Simob (II) nitrat |

- | | | | |
|----|------------------|----------------------|----------------------|
| C) | Natriy
nitrat | Simob (II)
nitrat | Rux nitrat |
| D) | Kumish
nitrat | Rux nirtat | Simob (II)
nitrat |

6. X elementni aniqlang

Element	Davriy jadvalda Joylashishi		Neytronlar soni
	Davr	Guruh	
X	4	VIB	28

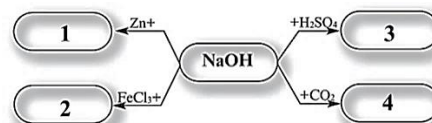
- A) Fe B) Mn C) Cr D) W

7. X, Y va Z larning qay biri VIII B guruhda joylashgan?

Ion	Elektron soni
X^{+2}	24
Y^{+2}	18
Z^{+3}	21

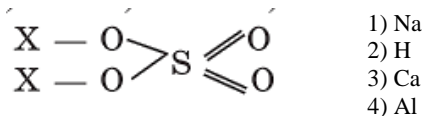
- A) X B) Y C) Z D) X va Z

8. Quyidagi sxemadan 1 ni aniqlang



- A) Na_2ZnO_2 B) Na_2SO_4 C) $FeCl_3$ D) $NaHCO_3$

9. X qaysi element bo'la oladi?



- A) 1 B) 3 C) 4 D) 1 va 2

10. Quyidagi berilgan davriy sistemadagi B elementning tarkibini aniqlang

[illegible]

- A) bor B) vodorod C) azot D) geliy

11. $\frac{2}{5}$ mol $MgSO_4$ ning massasini (g) aniqlang.

- A) 48 B) 120 C) 60 D) 24

12. $\text{CuSO}_4 \cdot x\text{H}_2\text{O}$ ning 25 gramm miqdorida 0,9 mol kislorod atomi mavjud bo'lsa, x ni qiymatini aniqlang.

- A) 3 B) 4 C) 5 D) 6

13. NH_3 ning 1 mol miqdori tarkibida necha atom – gramm azot (N) mavjud?

- A) 14 B) 1 C) 7 D) 28

1.

A	B	C	D

 7.

A	B	C	D

 13.

A	B	C	D

 19. _____
2.

A	B	C	D

 8.

A	B	C	D

 14.

A	B	C	D

 20. _____
3.

A	B	C	D

 9.

A	B	C	D

 15.

A	B	C	D

 22. _____
4.

A	B	C	D

 10.

A	B	C	D

 16.

A	B	C	D

 23. _____
5.

A	B	C	D

 11.

A	B	C	D

 17.

A	B	C	D

 24. _____
6.

A	B	C	D

 12.

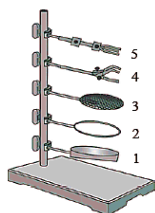
A	B	C	D

 18.

A	B	C	D

 25. _____

14. Quyidagi tasvirda berilgan universal shtativning qismlari bilan juftlang.



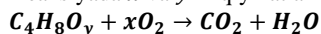
- a) suv hammomi b) halqali tutqich
c) asbest to'rtli taglik d) tutqich
e) ilgich

- A) 1 – a; 2 – b; 3 – c; 4 – d; 5 – e
B) 1 – b; 2 – b; 3 – c; 4 – d; 5 – e
C) 1 – a; 2 – b; 3 – c; 4 – d; 5 – c
D) 1 – a; 2 – b; 3 – d; 4 – c; 5 – e

15. 8E yadrosida soat strelkasiga qarama – qarshi ravishda harakatlanuvchi elektronlar sonini aniqlang.

- A) 8 B) 0 C) 16 D) 4

16. Quyida berilgan reaksiyada x va y ni qiymatlarini aniqlang.



- A) $x = 3; y = 4$ B) $x = 4; y = 3$
C) $x = 5; y = 2$ D) $x = 2; y = 5$

17. Moddaning molyar massasi qanday ifodalanadi?

- A) g/mol B) kg/molal C) mg/mol D) A,B,C

18. x ni aniqlang.

Oksid	Oksid tarkibidagi $\omega(X)$
XO	80%

- A) Cu B) C C) Fe D) Zn

19. Quyidagilarni juftlang

Kislotali oksid	Oddiy sharoitda agregat holati
1	Gaz
2	Suyuq
3	Qattiq

20. Metalning nisbiy atom massasini aniqlang

Parchalanayotgan Modda	To'liq parchalanishidan massaning o'zgarishi (%)
$Me(OH)_2$	20

21. X, Y va Z ni aniqlab, juftlang

Metal	1 mol metal bilan ta'sirlashgan O_2 miqdori
X	0,5 mol
Y	0,25 mol
Z	0,75 mol

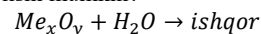
- 1) Li 2) Na 3) Al 4) Cu 5) Fe 6) Zn

22. X, Y va Z ni aniqlab, juftlang

Oksid	Suv bilan ta'sirlashish mahsuloti
X	Kislota
Y	Asos
Z	Yo'q

- 1) Na_2O 2) CuO 3) SO_3 4) SiO_2 5) ZnO 6) CaO

23. X qaysi metal bo'lishi mumkin?



- 1) Na 2) Fe 3) K 4) Al 5) Cu

24. X, Y va Z ni aniqlab, juftlang

Modda	Suv bilan ta'sirlashish mahsuloti		
	Ishqor	oksid	Vodorod
X	+	--	+
Y	--	+	+
Z	+	--	--

- 1) Fe 2) Na 3) Na_2O 4) NaH 5) Zn 6) CaO

25. Quyidagi ikki holatda qaysi tuzlar olingan bo'lishi mumkin?

1. tuz + $NaOH$ = cho'kma + tuz

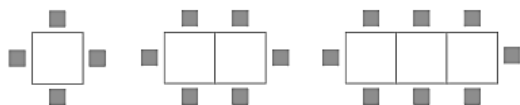
2. tuz + $Ca(OH)_2$ = cho'kma + tuz

- a) K_2CO_3 b) $FeCl_2$ c) Na_2SO_4 d) $Al_2(SO_4)_3$

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Fan olimpiadasi
Kimyo 10 – sinflar uchun test

1. Agar bir dona kvadrat stolning to'rt tomoniga bittadan stul qo'yib chiqsa, to'rtta stul joylanadi. Agar ikki dona kvadrat stol birlashtirilsa, oltita stul joylanadi. Agar uch dona kvadrat stol birlashtirilsa, oltita stul joylanadi.



Yuqorida berilgan tasvirda qaysi uglevodorodlar aks ettirilgan bo'lishi mumkin?

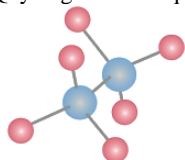
- A) etan, butan, metan B) metan, etan, propan
C) metan, propan, butan D) etan, metan, propan

2. x ni aniqlang.

Alkan	
Vodorod atomlar soni	Nisbiy molekulyar massasi
n	30
$n + 6$	x

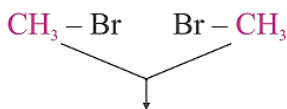
- A) 100 B) 88 C) 72 D) 114

3. Quyidagi tasvirda qaysi alkan molekulasini berilgan?



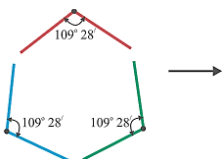
- A) metan
B) etan
C) propan
D) butan

4. Quyidagi alkil galogenidlardan qaysi molekula hosil bo'ladi?



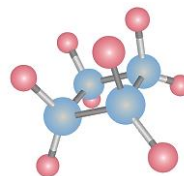
- A) metan B) etan C) propan D) butan

5. Quyidagi burchaklarning jamlanishi natijasida qanday sikloalkan tuzilishini ko'rish mumkin?



- A) siklopropan
B) siklobutan
C) siklopentan
D) siklogeksan

6. Quyidagi tasvirda qaysi sikloalkan molekulasini berilgan?



- A) siklopropan
B) siklobutan
C) siklopentan
D) siklogeksan

7. x ni aniqlang. ($^{12}_6C$, 1_1H)

Uglevodorod	Molekuladagi protonlar soni	Vodorod atomlari soni
Sikloalkan	24	x

- A) 8 B) 10 C) 6 D) 12

8. x ni aniqlang. ($^{12}_6C$, 1_1H)

Uglevodorod	Molekuladagi neytronlar soni	Vodorod atomlari soni
Alkan	12	x

- A) 8 B) 10 C) 6 D) 12

9. x ni aniqlang. ($^{12}_6C$, 1_1H)

Uglevodorod	Molekuladagi protonlar soni	Vodorod atomlari soni
Alkan	18	x

- A) 8 B) 10 C) 6 D) 12

10. X, Y va Z moddalarni aniqlang

Tuz	Parchalanish mahsuloti
X	Tuz
Y	Metal oksidi
Z	Metal

- | | | | |
|----|---------------|-------------------|-------------------|
| | X | Y | Z |
| A) | Kaliy nitrat | Rux nitrat | Simob (II) nitrat |
| B) | Rux nitrat | Kaliy nitrat | Simob (II) nitrat |
| C) | Natriy nitrat | Simob (II) nitrat | Rux nitrat |
| D) | Kumish nitrat | Rux nitrat | Simob (II) nitrat |

11. Aralashma tarkibidagi metanning massasini aniqlang.

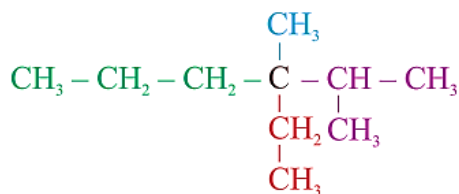
Aralashma	Uglerod atomlari soni	Gazlarning umumiy mol miqdori
CH_4	a	7
C_2H_6	a	
C_4H_6	a	

- A) 16 B) 32 C) 48 D) 64

12. Quyidagi birikma tarkibida nechta birlamchi uglerod atomlari mavjud?

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1. ☐ A ☐ B ☐ C ☐ D 7. ☐ A ☐ B ☐ C ☐ D 13. ☐ A ☐ B ☐ C ☐ D 19. _____
 2. ☐ A ☐ B ☐ C ☐ D 8. ☐ A ☐ B ☐ C ☐ D 14. ☐ A ☐ B ☐ C ☐ D 20. _____
 3. ☐ A ☐ B ☐ C ☐ D 9. ☐ A ☐ B ☐ C ☐ D 15. ☐ A ☐ B ☐ C ☐ D 21. _____
 4. ☐ A ☐ B ☐ C ☐ D 10. ☐ A ☐ B ☐ C ☐ D 16. ☐ A ☐ B ☐ C ☐ D 22. _____
 5. ☐ A ☐ B ☐ C ☐ D 11. ☐ A ☐ B ☐ C ☐ D 17. ☐ A ☐ B ☐ C ☐ D 23. _____
 6. ☐ A ☐ B ☐ C ☐ D 12. ☐ A ☐ B ☐ C ☐ D 18. ☐ A ☐ B ☐ C ☐ D 24. _____
 25. _____



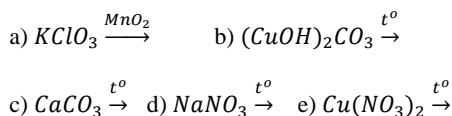
8. A) 8 B) 10 C) 5 D) 12
13. Quyidagi alkanning asosiy zanjirida nechta uglerod atomi mavjud?

$$\begin{array}{c} \text{CH}_3 - \text{CH}_2 \\ | \\ \text{CH}_3 - \text{CH} - \text{CH} \\ | \quad | \\ \text{CH}_3 \quad \text{CH}_2 - \text{CH} - \text{CH}_3 \\ | \\ \text{CH}_3 \end{array}$$
14. Olmos, grafit, osh tuzi, sulfat kislotasi, shakar va natriy gidroksid moddalari berilgan. Shu moddalar tarkibini nechta xil element tashkil etgan?
 A) 8 B) 7 C) 6 D) 5 E) 4
15. Qaysi alkanni Vyurs reaksiyasi asosida olib bo'lmaydi?
 A) etan B) metan C) propan D) butan
16. 0,75 mol alkan tarkibida $18,06 \cdot 10^{23}$ ta vodorod atomi bo'lsa, ushbu alkanning nomini toping.
 A) metan B) etan C) butan D) propan
17. 41gr natriy atsetat yetarli miqdorda NaOH bilan ta'sirlashganda hosil bo'ladigan gaz hajmini (l n.sh.) toping.
 A) 22,4 B) 33,6 C) 11,2 D) 16,8
18. Agar $\omega_1 > \omega_2 > \omega_3$ bo'lsa, X, Y, Z ni aniqlang

Fosfor tutuvchi kislota	Kislota molekulasidagi kislorodning massa ulushi
X	ω_1
Y	ω_2
Z	ω_3

1) HPO_3 2) H_3PO_4 3) H_3PO_3

19. Bog'liqlikni aniqlang



Parchalanish Reaksiyasi	Reaksiya maxsulotlari miqdori	
	Oddiy modda	Murakkab modda
1	1	1
2	0	2
3	0	3

20. X ni aniqlang

t_1 °C	t_2 °C	γ	$\tau_1(\text{sek})$	$\tau_2(\text{sek})$	v_{t_1}/v_{t_2}
10	60	2	60	X	Y

21. $X_g + 2Y_g \leftrightarrow 2Z_g$ reaksiyas bo'yicha muvozanat konstantasi 2 ga teng. a ni aniqlang

Modda	v (dastlabki) (mol)	v (muvozanat) (mol)
X	4	2
Y	6	a

22. X tarkibidagi proton va neytronlar yig'indisini aniqlang.

Ion	$N(e^-)$	$N(p)$	$N(n)$
X^-	36	s	$s + 10$

23. izobar larni belgilang
 1) b_aX 2) b_cY 3) a_dZ 4) b_dT

24. Agar $a + b$ maksimal qiymatlarni qabul qilsa, X ni aniqlang

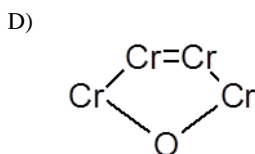
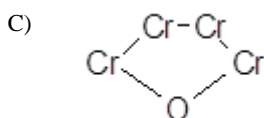
Neytral atom	Elektron formula
X	$3s^a 3p^b$

25. Oksidlanish darajasi (a) va ion zaryadlarni (b) farqlang
 1) Fe^{+2} 2) Cu^{2+} 3) S^{+4} 4) P^{3-} 5) Cl^{+5}

Fan olimpiadasi
Kimyo 11 – sinflar uchun test

1. Cr_2O_3 ni strukturasi ko'rsating.

- A) $Cr - O - O - O - Cr$
B) $O = Cr - O - Cr = O$

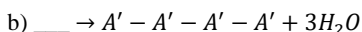
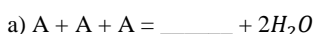


2. x va y ni aniqlang

Modda	1 mol modda tarkibidagi kimyoviy bog'lar soni	
	Ion bog'	Kovalent bnog'
$Al_2(SO_4)_3$	x	y

- A) 9 ; 12 B) 6 ; 10 C) 6 ; 12 D) 3 ; 18

3. Quyidagilarni juftlang.



- 1) aminokislota 2) dipeptid 3) tripeptid 4) tetrapeptid
A) 1 – a; 2 – c B) 1 – c; 2 – a
C) 3 – a; 1 – b D) 1 – b; 3 – c

4. Agar XO_2 tarkibli oksidning hosil bo'lishida X atomining elektron formulasi quyidagicha bo'lsa,



X atomning tarkibini aniqlang.

- A) C B) S C) Xe D) Ca

5. H_2SO_x va $HClO_y$ molekulari tarkibida bir xil miqdorda π bog'lar mavjud bo'lsa, x va y ni aniqlang.

x y

- I. 3 2
II. 4 4
III. 4 3
IV. 3 3
A) I,II B) I,III C) II,IV D) III,IV

6. Quyidagi kislotalarni negzlari bilan juftlang.

- 1) H_3PO_4 2) H_3PO_3 3) H_3PO_2

a) bir negzli b) ikki negzli c) uch negzli

- A) 1 – c, 2 – b, 3 – a

- B) 1 – a, 2 – b, 3 – c

- C) 1 – c, 2 – c, 3 – a

- D) 1 – b, 2 – b, 3 – b

7. Quyidagi reaksiyalar natijasida hosil bo'lgan tuzlar tarkibini aniqlang.



- 1) Na_2SO_4 2) $NaHSO_4$ 3) $NaKSO_4$ 4) K_2SO_4

- 5) $KHSO_4$

- A) 1,3 B) 1,4 C) 3,5 D) 1,2,4

8. Quyidagi belgi nimani anglatadi?



- A) kislota
B) dezinfektsiyalovchi modda
C) o'yuvchi modda
D) zaxarli modda

9. $C_xH_yO_z$ tarkibli moddaning $1/4$ mol miqdorini 1 mol kislorod bilan yondirilishi natijasida $3/4$ mol CO_2 va 1 mol H_2O hosil bo'lgan bo'lsa, x, y, z ni aniqlang

x y z

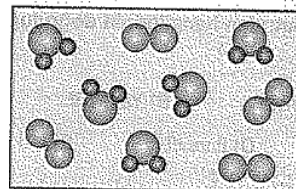
- A) 3 6 2
B) 3 8 2
C) 2 6 2
D) 2 4 2

10. Quyida berilgan jadvaldan X,Y,Z,T lar uchun tegishli bo'lganlarni belgilang.

	Proton soni	Neytron soni	Elektron soni
X^{n+}	20	20	18
Y	17	20	17
Z^{m-}	16	16	18
T	19	20	19

- A) X^{n+} va Z^{m-} o'zaro izoton
B) Y va T o'zaro izotop
C) X^{n+} va T o'zaro izoton
D) X^{n+} va T ion

11. Quyida berilgan tasvirda qaysi molekular modellari berilgan?



- I. O_2, H_2O
II. CO_2, CO
III. CO_2, Co

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1.

A	B	C	D

 7.

A	B	C	D

 13.

A	B	C	D

 19. _____
2.

A	B	C	D

 8.

A	B	C	D

 14.

A	B	C	D

 20. _____
3.

A	B	C	D

 9.

A	B	C	D

 15.

A	B	C	D

 22. _____
4.

A	B	C	D

 10.

A	B	C	D

 16.

A	B	C	D

 23. _____
5.

A	B	C	D

 11.

A	B	C	D

 17.

A	B	C	D

 24. _____
6.

A	B	C	D

 12.

A	B	C	D

 18.

A	B	C	D

 25. _____

A) faqat I B) faqat II C) Faqat III D) I va II

12. XO_4^{3-} ionida 50 ta elektron mavjud bo'lsa, X qaysi element?
A) Mg B) Al C) Fe D) P
13. ${}^{2a}X$, ${}^{2a+1}Y$, ${}^{2a+1}Z$ atomlari uchun tegishli bo'lmagan javobni aniqlang.
A) X va Y izoton B) X va Z izotop
C) Y va Z izobar D) X va Z isobar
14. Quyidagi berilgan jadvaldagi elementlarning qay birlari 3 – davrda joylashgan?

Ion	Elektronlar soni
X^+	10
Y^{3-}	18
Z^{3+}	10
T^{2-}	10

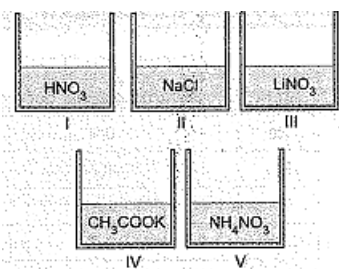
A) X,Y B) X,Y,Z C) X,Z,T D) X,Y,T

15. Quyida berilgan elementlarning davriy jadvalda joylashgan o'rnini to'g'ri berilgan javobni aniqlang.

element davriy jadvaldagi o'rnini

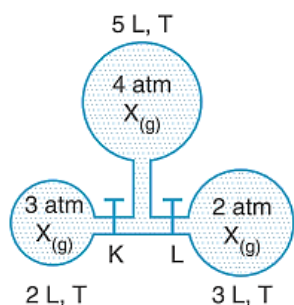
- A) ${}_2X$ 1. davr 2A guruh
B) ${}_8Y$ 6. davr 2A guruh
C) ${}_{21}Z$ 4. davr 6A guruh
D) ${}_{16}T$ 3. davr 6A guruh

16. Quyidagi 5 ta idishda 5 xil tuz eritmalari berilgan. Ushbu tuzlarning qaysi biri $AgNO_3$ bilan cho'kma hosil qiladi?



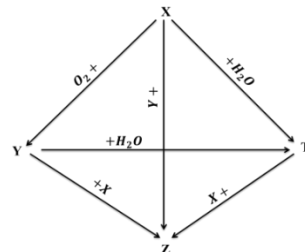
A) I B) II C) III D) IV

17. Quyidagi tasvirda berilgan sistemada K va L tirqichlar ochilgandan so'ng sistema bosimi necha atm bo'ladi?



A) 1,6 B) 2,4 C) 3,2 D) 4

18. a, b, c ni aniqlang Quyidagi sxemadan X qaysi element bo'la oladi?



1. Li 2. Na 3. Al 4. K 5. Mg

A) 2,4 B) 1,2,4 C) 1,2,5 D) 1,4

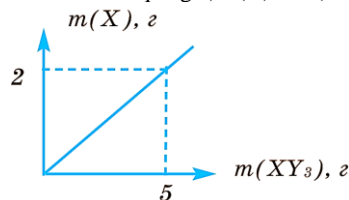
19. Agar $a + b$ maksimal qiymatlarni qabul qilsa, X ni aniqlang

Neytral atom	Elektron formula
X	$3s^a 3p^b$

20. Birikmaning kimyoviy formulasini aniqlang.

$m(Fe), g$	$m(C), g$	$m(O), g$	Kimyoviy formula
14	3	12	$Fe_x C_y O_z$

21. Quyida berilgan grafikdan foydalanib, Y ni nisbiy atom massasini aniqlang. ($Ar(X) = 32$)



22. x ni aniqlang.

To'yingan eritma massasi	Eritmaning foiz konsentratsiyasi	Tuzning eruvchanlik koeffitsienti (g/l)
200	X	1000

23. Izotoplarni aniqlang.

Elementlar	Neytronlar soni	Nisbiy atom massasi
X	18	35
Y	20	37
Z	20	39
T	20	40

24. Molekular soni teng bo'lgan X_2Y_4 va X_3Y_8 gazlari bir – biridan qanday farqi bor?

I. Mol miqdori II. Atomlar soni III. Massasi

25. Neytronlar soni protonlar sonidan 4 taga ko'p va elektronlar soni 22 ta bo'lgan ${}^{52}X^n$ ionining zaryadini aniqlang.