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|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| اسم الطالب :                                                                                                                                  | رقم الجلوس :                                                                                                         |
|  <p>منصة الاختبارات الالكترونية<br/>لأبنائنا في الخارج</p> | <p>امتحان مادة : الكيمياء بالإنجليزية<br/>للفيف الثاني الثانوى ( دمج )<br/>المتخلفين عن الفصل الدراسي الأول ٢٠٢٦</p> |

1- Which of the following the volume of Helium gas in half mole at STP conditions?

|   |                              |
|---|------------------------------|
| a | $2 \times 22.4 \text{ L}$    |
| b | $1 \times 22.4 \text{ L}$    |
| c | $0.5 \times 22.4 \text{ L}$  |
| d | $0.25 \times 22.4 \text{ L}$ |

2- Which of the following is the number of Nitrogen atoms in half mole ?

|   |                                   |
|---|-----------------------------------|
| a | $2 \times 6.02 \times 10^{23}$    |
| b | $1 \times 6.02 \times 10^{23}$    |
| c | $0.5 \times 6.02 \times 10^{23}$  |
| d | $0.25 \times 6.02 \times 10^{23}$ |

3- Rutherford concluded From his experiment that the atom contains a positively charged nucleus.

Which of the following is the evidence of this conclusion?

|   |                                                       |
|---|-------------------------------------------------------|
| a | Most alpha particles pass through without deflection. |
| b | A small percentage of alpha particles are deflected.  |
| c | A small percentage of alpha particles are reflected.  |
| d | Using a thin film of pure gold.                       |

4- Which of the following the electronic configuration Oxygen element ( $^{16}_8\text{O}$ ) according to Building up principle?

|   |                                      |
|---|--------------------------------------|
| a | $1S^2, 2S^2, 2P^4$                   |
| b | ( K , L )<br>( 2 , 6 )               |
| c | $1S^2, 2S^2, 2P_X^2, 2P_Y^2$         |
| d | $1S^2, 2S^2, 2P_X^2, 2P_Y^1, 2P_Z^1$ |

|                                                                                                                                          |                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| اسم الطالب :                                                                                                                             | رقم الجلوس :                                                                                                                   |
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5- Which of the following represents the principal quantum number for the third electron in Sodium atom (  $^{23}_{11}\text{Na}$  ) ?

|   |                      |
|---|----------------------|
| a | $n=2$                |
| b | $\ell = 1$           |
| c | $m_{\ell} = -1$      |
| d | $m_s = -\frac{1}{2}$ |

6- Which of the following elements has the highest second ionization potential?

|   |                    |
|---|--------------------|
| a | ${}_3\text{Li}$    |
| b | ${}_{11}\text{Na}$ |
| c | ${}_{19}\text{K}$  |
| d | ${}_{12}\text{Mg}$ |

7- Which of the following is the oxidation number of Nitrogen atom in (  $\text{NH}_4\text{OH}$  )?

|   |      |
|---|------|
| a | (3-) |
| b | (3+) |
| c | (2-) |
| d | (2+) |

★((( انتهت الأسئلة )))★