BAREM test inițial clasa a X-a (modelul 2)

I. 4· 0,5p = 2p
1. c
2. c
3. c
4. d
II. 14· 0,2p = 2,8p
A
1) $1s^2 2s^2 2p^5$
2) perioada a 2 a; grupa a VII-a A; blocul p
3) 1
4)

$$: \overset{\cdot\cdot}{\underset{\cdot\cdot}{X}} \cdot \longrightarrow \ : \overset{\cdot\cdot}{\underset{\cdot\cdot}{X}} {}^{1:}$$
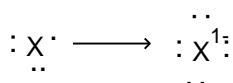
5) nemetal
B
1) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^1$
2) perioada a 4 a; grupa a I A; blocul s
3) 1
4)
$$Y \longrightarrow Y^+$$
5) metal
III. 5· 0,4p = 2p
1. c
2. d
3. a
4. e
5. b
IV. raționamet corect - 1,2p, calcul matematic – 1p
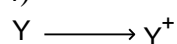
$m_{s1} = 60g$

$c_1 = 30\% \rightarrow m_{d1} = \dfrac{m_{s1} \bullet c_1}{100} = \dfrac{60 \bullet 30}{100} = 18g$

$m_{s2} = 20g$

$c_2 = 20\% \rightarrow m_{d2} = \dfrac{m_{s2} \bullet c_2}{100} = \dfrac{20 \bullet 20}{100} = 4g$

$\rho = \dfrac{m}{V} \rightarrow m = \rho \bullet V = 100g$

$m_{d\ final} = m_{d1} + m_{d2} = 18 + 4 = 22g$

$m_{s\ final} = m_{s1} + m_{s2} + m_{apa} = 60 + 20 + 100 = 180g$

$c_{final} = \dfrac{m_{d\ final}}{m_{s\ final}} \bullet 100 = \dfrac{22}{180} \bullet 100 = 12{,}22\%$