I. 4· 0,5p = 2p
1. c
2. b
3. c
4. b
II. 14· 0,2p = 2,8p
A
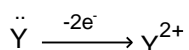1) $1s^2 2s^2 2p^3$
2) perioada a 2 a; grupa a Va A; blocul p
3) 3
4)
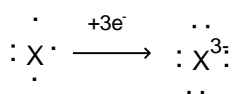
5) nemetal
B
1)$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2$
2) perioada a 4 a; grupa a II-a A; blocul s
3) 0
4)

5) metal
 III. 5· 0,4p = 2p
 1. b
2. d
3. a
4. e
IV raționamet corect - 1,2p, calcul matematic – 1p
$m_{s1} = 200g$

$c_1 = 20\% \rightarrow m_{d1} = \dfrac{m_{s1} \bullet c_1}{100} = \dfrac{200 \bullet 20}{100} = 40g$

$m_{s2} = 500g$

$c_2 = 30\% \rightarrow m_{d2} = \dfrac{m_{s2} \bullet c_2}{100} = \dfrac{500 \bullet 20}{100} = 100g$

$m_{s3} = 300g$

$c_3 = 40\% \rightarrow m_{d3} = \dfrac{m_{s3} \bullet c_3}{100} = \dfrac{300 \bullet 40}{100} = 120g$

$m_{d\,final} = m_{d1} + m_{d2} + m_{d3} = 40 + 100 + 120 = 260g$

$m_{s\,final} = m_{s1} + m_{s2} + m_{s3} = 200 + 500 + 300 = 1000g$

$c_{final} = \dfrac{m_{d\,final}}{m_{s\,final}} \bullet 100 = \dfrac{260}{1000} \bullet 100 = 26\%$