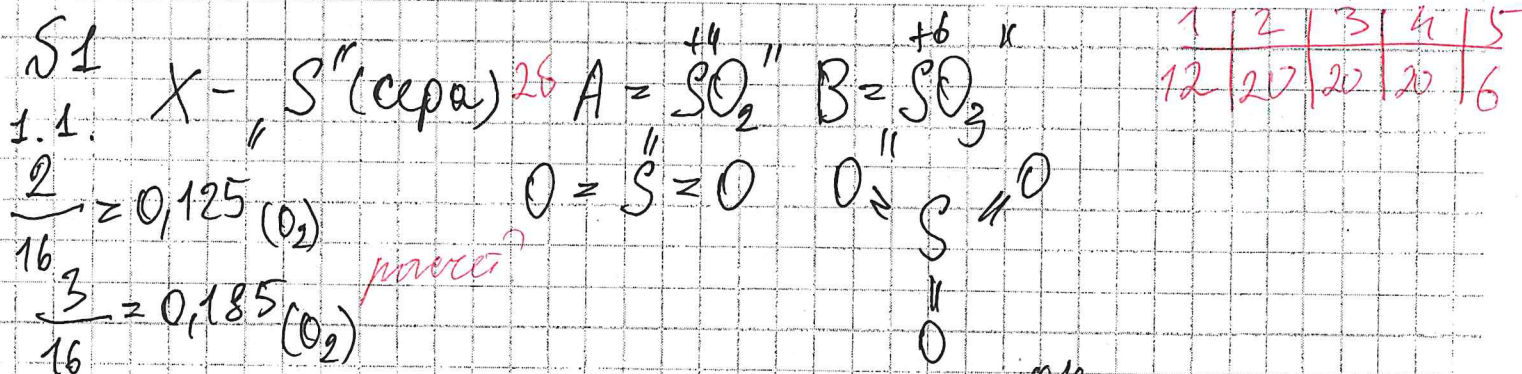
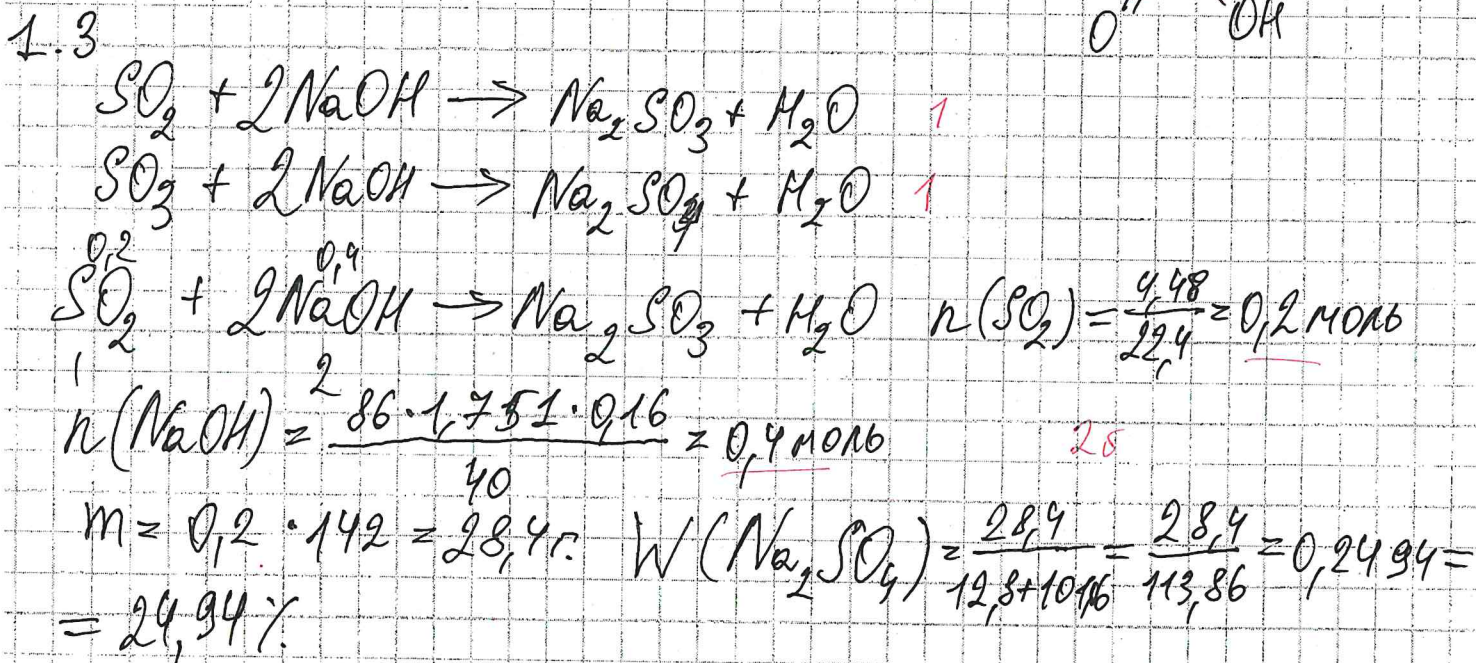
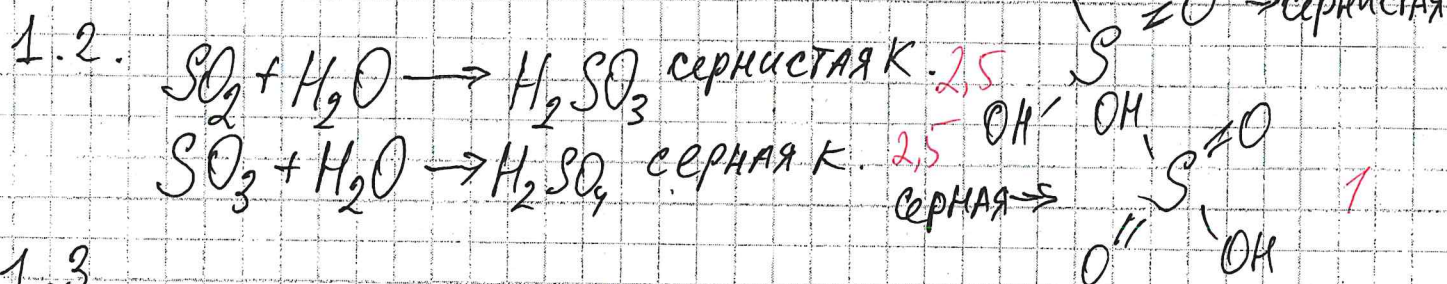


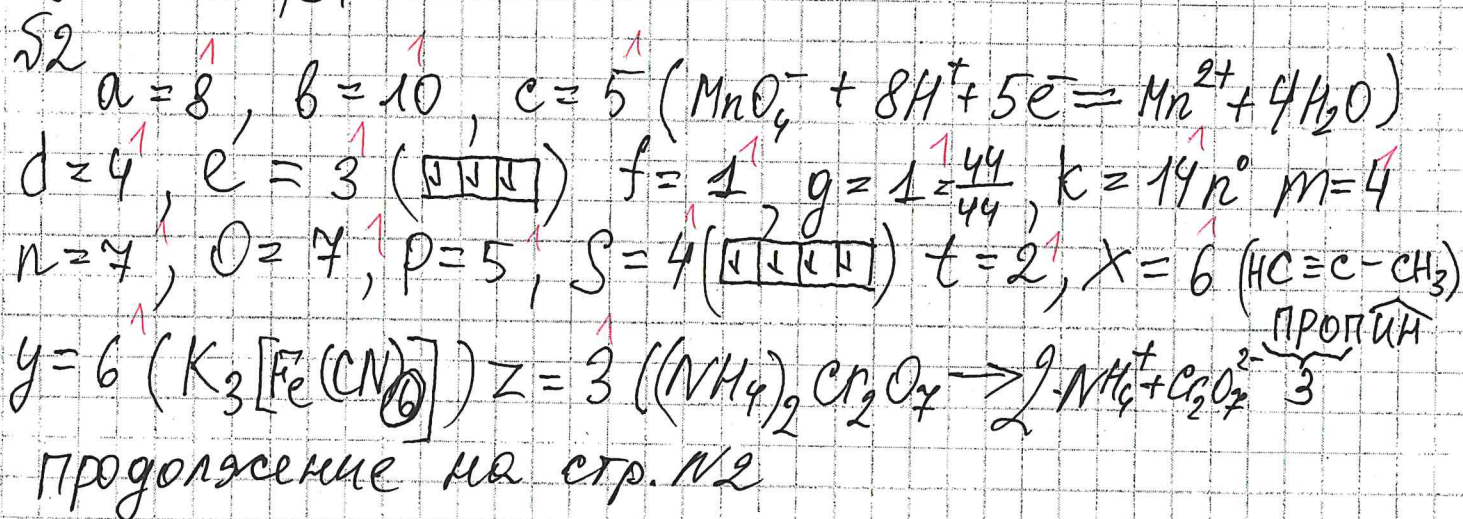
Общий балл	Дата	Ф.И.О. Жюри	Подпись
78	21.03.25	Бутылева	<i>Бутылева</i>
Шифр			43008



1	2	3	4	5
12	20	20	20	16



Ответ: 24,94%.



Общий балл	Дата	Ф.И.О. Жюри	Подпись
78	21.03.25	Бураева	Бураева
Шифр			43008

№2 часть (II)

$$a - x = 8 - 6 = 2$$

$$a - c = 8 - 5 = 3$$

$$3 + p = 3 + 5 = 8$$

$$8 + d = 8 + 4 = 12$$

$$b - d = 10 - 4 = 6$$

$$b - m = 10 - 4 = 6$$

$$6 + e = 6 + 3 = 9$$

$$k - n = 14 - 7 = 7$$

$$n - f = 7 - 1 = 6$$

$$f + s = 1 + 4 = 5$$

$$s + y = 4 + 6 = 10$$

$$y + z = 6 + 3 = 9$$

$$10 - g = 10 - 1 = 9$$

$$0 - t = 7 - 2 = 5$$

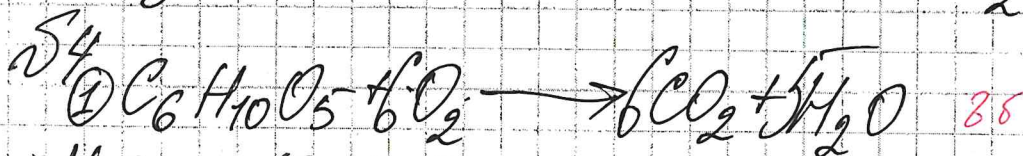
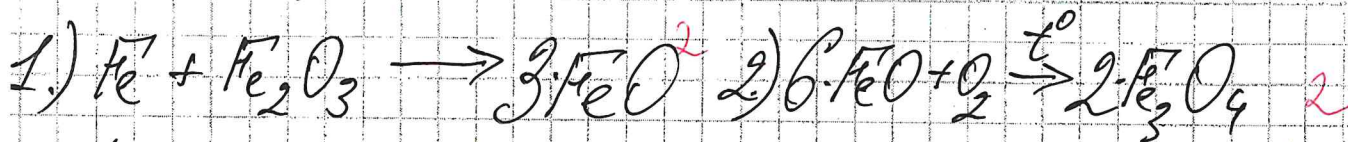
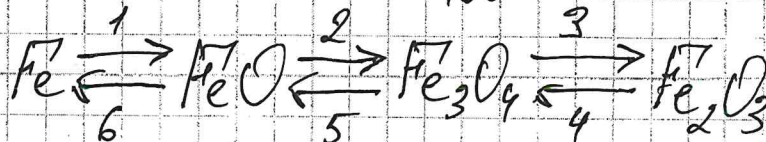
№3

$$A = Fe$$

$$B = FeO \quad W(Fe) = \frac{56}{72} \cdot 100 = 77,78\%$$

$$C = Fe_3O_4 \quad W(Fe) = \frac{56 \cdot 3}{232} \cdot 100 = 72,41\%$$

$$D = Fe_2O_3 \quad W(Fe) = \frac{56 \cdot 2}{160} \cdot 100 = 70\%$$



$$\Delta H_{обр} = -1060 \text{ кДж/моль}$$

$$\text{Теплота сгорания} = \Delta H_{ср} = \sum \Delta H - \Delta H_{вост}$$

$$\Delta H_{ср} = 6 \cdot (-394) + 5 \cdot (-286) + 1060 = -3794 + 1060 = -2734 \text{ кДж/моль}$$

Продолжение на стр №3

Общий балл	Дата	Ф.И.О. Жюри	Подпись
78	21.03.25	<i>Бугаева</i>	<i>Бугаева</i>
Шифр			

54 (продолжение)

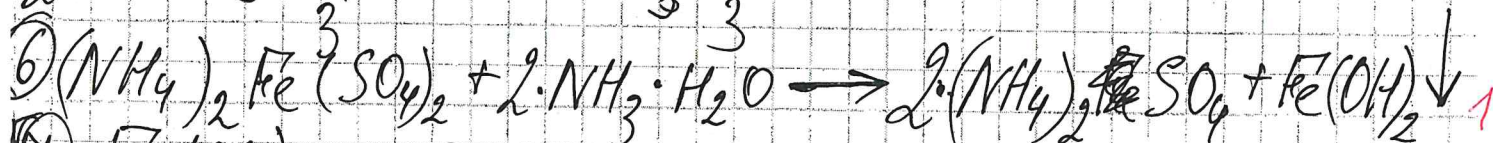
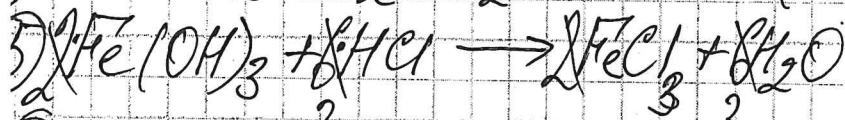
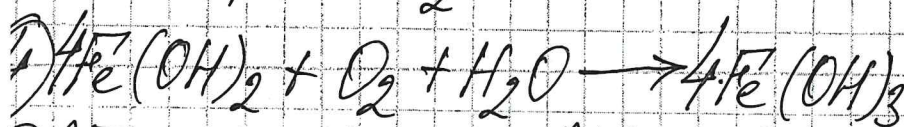
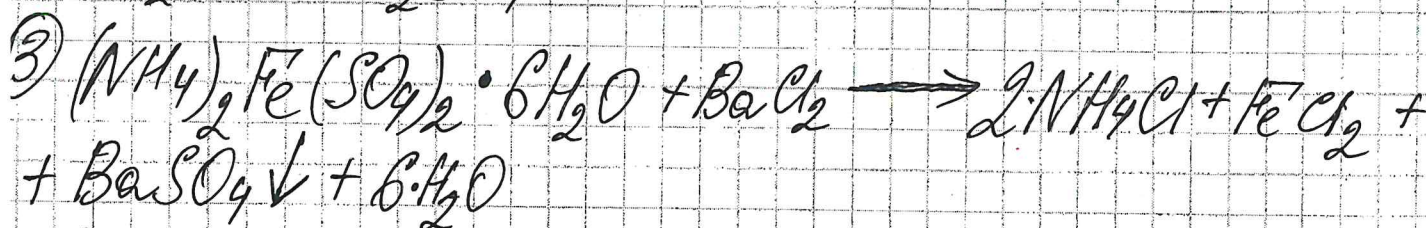
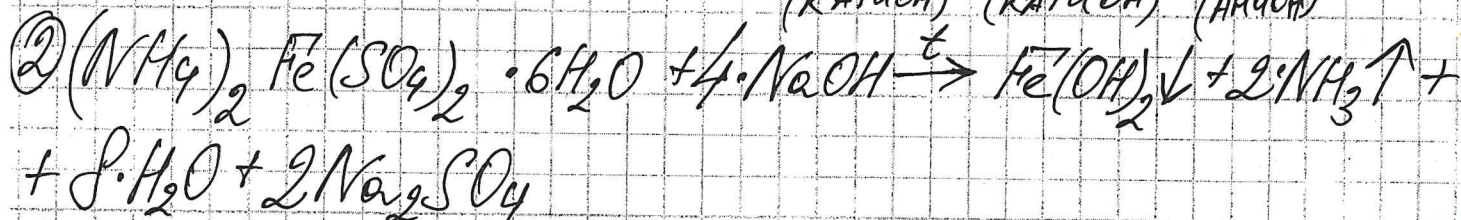
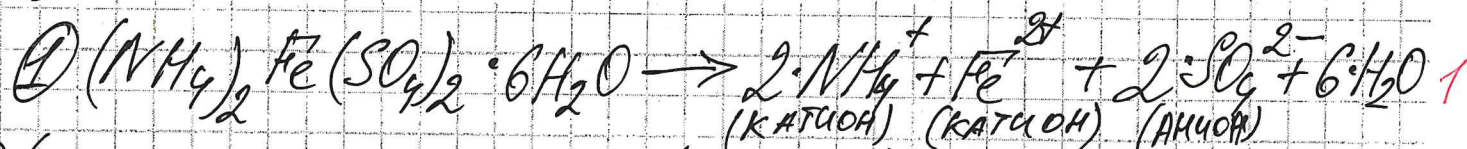
$$M_r[(C_6H_{10}O_5)_n] = 162 \text{ г/моль} \quad m = 5 \text{ кг} = 5000 \text{ г} \Rightarrow$$

$$\Rightarrow n = \frac{5000}{162} = 30,86 \text{ моль}$$

$$E_1 = 30,86 \cdot 2734 = 84371 \text{ КДж} = 84,371 \text{ МДж}$$

Ответ: 84371 КДж = 84,371 МДж.

55



$$M_r(Fe(OH)_2) = 90, \quad n = \frac{0,16}{90} = 0,00177 \text{ моль}$$

$$0,00177 \cdot 72 \approx 0,128 \text{ г} = m.$$

Ответ: 0,128 г.