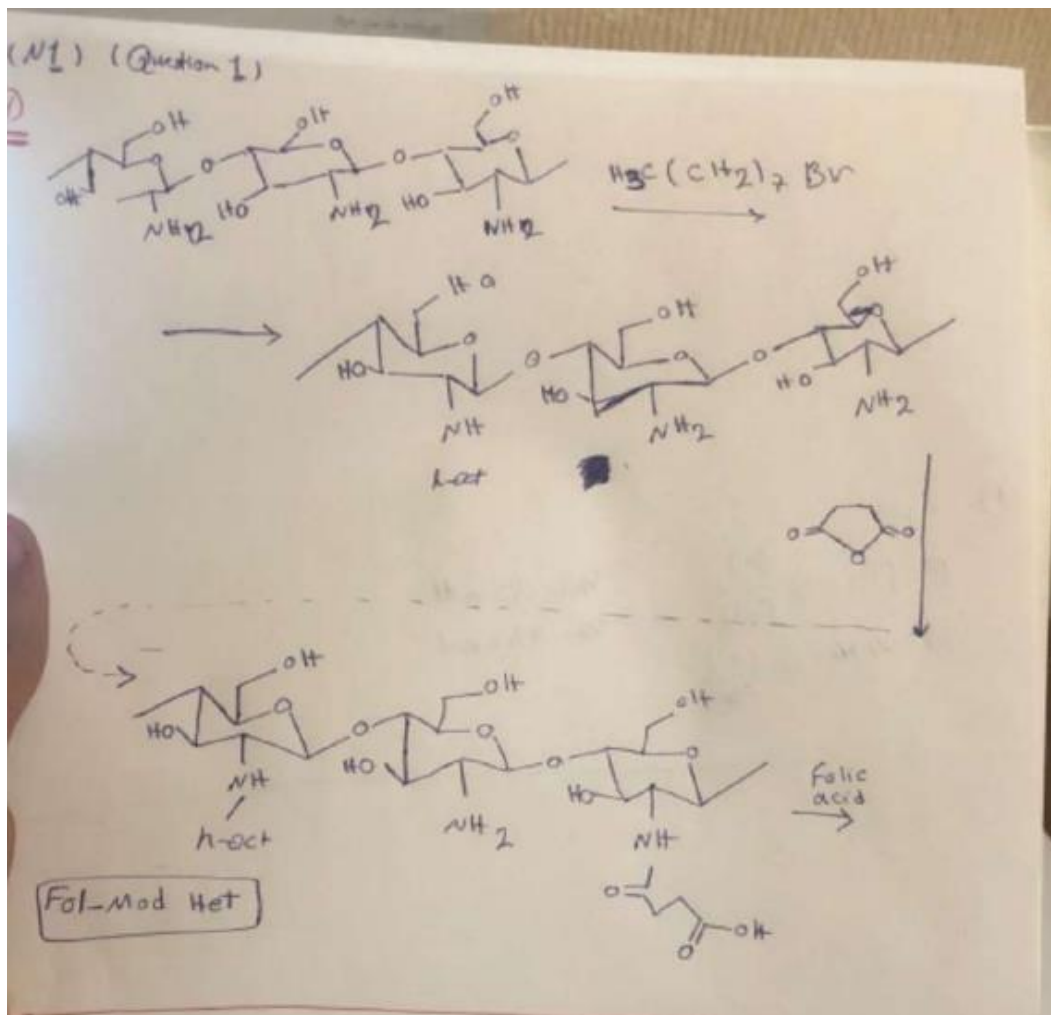


Задание 1 — 17 баллов



Задание 2 — 10 баллов

(Question No 2)

① $k = A e^{-\frac{E_a}{RT}}$

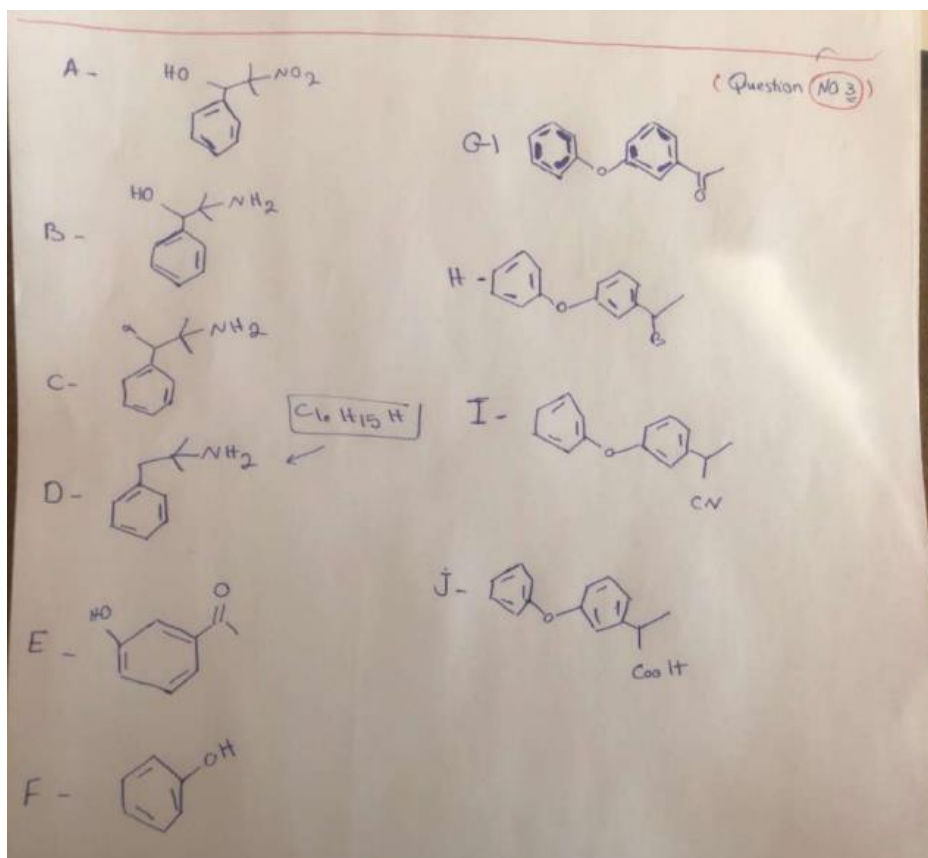
$\ln \frac{k_1}{k_2} = \frac{E_a}{RT_2} - \frac{E_a}{RT_1}$ $E_a = 59615 \frac{\text{J}}{\text{mol}}$

② instability in aqueous solutions is explained by the composition of the reagent when interacting with water

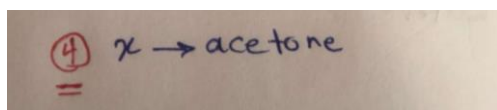
③ lowering the pH

④ $s.l. = -\frac{\ln 0.19}{k_1} = 2832 \text{ days}$

Задание 3 — 12 баллов



Задание 4 — 5 баллов



Задание 5 — 17,5 баллов

