Release Date: *27.11.2020 Hour:17.00*   **Delivery Date:** *01.12.2020 Hour: 17.00*

Student Number:								
	A	**B**	**C**	**D**	**E**	**F**	**G**	**H**
a =0,2×(B+H) + 0,3×(E+G+H) b = 0,2×(B+G) + 0,3×(D+G+H)								

Homework 2:

a) Draw the bending moment **(M)** and shear force **(V)** diagrams due to **the given externalloads,**

b) Draw bending moment **(M)** diagram due to **5 cm vertical** settlementand **2/1000 rad** rotation in clockwise **of support A, 2 cm vertical** settlement **of support B (movements of support A and B are simultaneous)**

c) Calculate **the support reactions for only the tie-rod** is exposed to uniform temperature change **$t^0=-15^0C$**,

of the system given in **Figure-2** by using **Force Method.**

$EI=2,8×10^4$ kNm², $EA=\infty$(except tie-rod), $GA'=\infty$, $\alpha_T=10^{-5}$ 1/^{0}C

(Figure-2)

(Figure-3)

Homework 3: For the system shown in **Figure-3**,

a) Draw **M**, **V** diagrams due to **the given external loads and check the moment diagram of the statically indeterminate structure if it is correct**

b) Draw **M** diagram in case of support settlements

c) Estimate the rotation at point A due to the given external loads

of the system given in **Figure-3** by using **Force Method.**

(EI= $3×10^4$ kNm², EA= ∞ve GA'= ∞)

NOTE:

Good Luck....