1. *Sketch the technical drawing of the following part!(26)*
   - All the grooves are fit with P9 tolerance (width)
   - Ø30 is fit with f7 tolerance. Ø18 is fit with js7 tolerance
   - Ø30 and Ø20 have a circularity tolerance of 0.1 mm. They also have a 0.2 concentricity tolerance.
   - All the groves can be deeper with 0.3 mm.
   - The length dimensions have a tolerance of ±0.1 mm.
   - The average roughness is 3.2 µm.
   - The roughness on the surface of Ø30 and Ø20 is 1.6 µm
   - The roughness on the surface of Ø18 is 0.8 µm.
   - The roughness on the surface of the grooves is 0.8 µm.

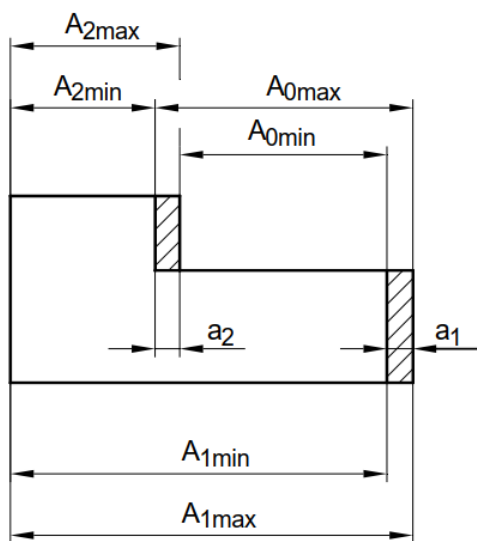10 long 3 deep planar surface

Fillets not shownR1 are R2

2. Calculate A0! (4)

$$A_1 = 100^{+0.1}_{-0.3}$$

$$A_2 = 30^{\pm 0.2}$$

3. Given front and left views of contracted rectangle. Sketch the top view and the pictorial representation! (10)