NAME:	
DATE:	

HEART RATE (HR) and BLOOD PREASURE (BP) MEASURING

HRrest (palpation method) = beats/min

 $HRmax = 208 - (0,7x \text{ age}) = 208 - (0,7x \dots) = \dots \text{beats/min}$

BPs	BPd	HR	$S(m^2)$	
				$S = surface area (m^2)$

CARDIAC OUTPUT (Q)

$$Q(ml \cdot \min^{-1}) = \frac{BPpuls \cdot c}{BPs + BPd} \cdot HR \cdot S$$

BPpuls = pulse pressure= sTK-dTK BPs = systolic BP BPd = diastolic BP c = constant = 200

 $Q (ml.min^{-1}) =$

STROKE VOLUME (Qs)

 $Q_{S}(ml) = Q(ml \cdot \min^{-1}) : HR$

 $Q_{S}(ml) =$

HR and BP AFTER LOAD

Working procedure:

1. After several minutes of rest setting idle person measure HR and BP.

2. Then the investigated person performs 30 deep squats with frequency: 1 squat per 1 sec.

3. After load (exercise) measure HR and BP and than measure every minute until the return to resting values (at lest 2 min after load).

Recording of measurement:

Values	HR	BP (mmHg)			0	0
		BPs	BPd	BPpuls	Q	Qs
rest						
immediately after load						
1 min. after load						
2 min. after load						
3 min. after load						
4 min. after load						
5 min. after load						