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

NAME:

DATE OF MEASUREMENT: DATE OF BIRTH:

HRrest (palpation method) = beats/min

 $HRmax = 208 - (0.7 \cdot age) = \dots beats/min$

BPs	BPd	HR	$S(m^2)$

 $S = body surface area (m^2)$

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

 $Q (ml \cdot min^{-1}) = \dots$

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 resting, measure the HR and BP.

2. Perform 30 deep squats with frequency 1 squat per second.

3. Immediately after the load, measure HR and BP and then in every minute until the return to resting values (at least 2 minutes after the load).

Values HR BP (mmHg) Q Qs rest Immediately after load Immediately after load Immediately after load Immediately after load 1 min. after load Immediately after load Immediately after load Immediately after load Immediately after load 2 min. after load Immediately after load Immediately after load Immediately after load Immediately after load 3 min. after load Immediately after load Immediately after load Immediately after load Immediately after load 3 min. after load Immediately after load Immediately after load Immediately after load Immediately after load 3 min. after load Immediately after load Immediately after load Immediately after load Immediately after load 4 min. after load Immediately after load Immediately after load Immediately after load Immediately after load

Recording of measurement:

CONCLUSIONS

(What factors contribute to HR increase during workload? Explain how the BP assessment works. Compare your assessed HR and BP to a corresponding sample or your classmates. Was the restoration of HR and BP fast or slow? Advocate your claim.)