

PRACTICAL EXAM IN PHYSIOLOGY 2019/2020

SYNOPSIS FOR MEDICAL STUDENTS

1. Evaluation of blood types.
2. Measurement of blood hemoglobin concentration.
3. Calculation of erythrocyte indices.
4. Measurement of blood pressure.
5. Auscultation and analysis of a phonocardiogram.
6. Left ventricular systole analysis.
7. Calculation of pulse wave conduction velocity.
8. Recording and analysis of an electrocardiogram.
9. ECG recording and calculation of the mean electrical axis.
10. Spirogram analysis: calculation of tidal volume, inspiratory reserve volume, expiratory reserve volume and vital capacity.
11. Spirogram analysis: calculation of tidal volume, respiratory rate, minute ventilation, and alveolar ventilation.
12. Spirogram analysis: calculation of Tiffeneau index.
13. Calculation of metabolic rate.
14. Calculation of basal metabolic rate.
15. Evaluation of a daily diet regimen.
16. Testing of clinically important reflexes.
17. Testing of the pupillary light reflex.
18. Testing of the pupillary accommodation reflex. Assessment of the near point of convergence.
19. Testing of visual acuity.
20. Evaluation of visual fields.
21. Assessment of color vision.
22. Audiometry.
23. Esthesiometry.
24. Calculation and clinical significance of the clearances of inulin and urea.
25. Calculation of renal plasma and blood flow.
26. Calculation of renal transport maximum of glucose.
27. Calculation of plasma and blood volume.
28. Assessment of acid-base balance.

Signed by the Head of the Department of Physiology,

Prof. R. Girchev, MD, PhD, DSc