



فيول
اوله وور
٢٠١٤ / ٨ / ٢٧



Medical Physiology Department
First Year Students

(Paper II, Short Essay Questions)

Sept., 2014

Allocated Time: 2 ¼ hours. Total Marks: 80 marks.

- Each question should be answered in a separate page.
- Diagrammatic illustrations are allowed whenever possible.

Answer the following questions:

(10 marks each)

- 1) Describe the mechanism and properties of neuromuscular transmission.
- 2) Mention the pressure changes taking place during the different phases of cardiac cycle?
- 3) Give a brief account on the immediate compensatory reactions to acute haemorrhage. Describe the mechanism of irreversible shock?
- 4) Define hypoxia. What are the causes and characters of hypoxia **not** associated with cyanosis?
- 5) **Define:** (2 marks each)
 - Reactive hyperaemia & its mechanism.
 - Residual volume of the lungs & its normal value.
 - The P₅₀ of the oxygen – haemoglobin dissociation curve.
 - Alkali reserve.
 - Bainbridge reflex and its significance.
- 6) Give a brief account on the origin, relay and effects of stimulation of the greater splanchnic nerve.
- 7) Compare heparin and dicumarol anticoagulants.
- 8)
 - A. Give a brief account on the components and functions of cell mediated immune response.
 - B. Describe shortly the metabolic changes that occur during skeletal muscle activity?

ستعقد الإمتحانات الشفهية في تمام الساعة الثامنة والنصف صباحا.
يوم الاثنين الموافق ١ / ٩ / ٢٠١٤