



دور مايو ٢٠١٥  
٢١ / ٥ / ٢٠١٥



## Medical Physiology Department

### Second Year Students

(Paper II, Short Essay Questions)

June, 2015

Allocated Time: 130 min.

Total Marks: 75 marks.

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

Answer the following questions:

- 1) Give a brief account on sodium ion handling along the whole length of the nephron. ( 8 marks )
- 2) Describe the structure of the juxtaglomerular apparatus and then mention the functions of its different components. ( 7 marks )
- 3) Give a brief account on the structure and nerve supply of the muscle spindle. Enumerate the types of stretch reflex. ( 8 marks )
- 4) Define aphasia. Classify its types and then mention the site of lesion in each type. ( 7 marks )
- 5) Enumerate the hormones secreted by the pituitary gland. Discuss the functions and control of secretion of one of them? ( 8 marks )
- 6) Compare type I (insulin dependant) and type II (non – insulin dependant) diabetes mellitus. ( 7 marks )
- 7) What are the changes taking place in your eyes on looking to near objects and their physiological significance? Draw the pathway that produces these changes. ( 8 marks )
- 8) Give a brief account on the endocrine functions of the placenta. ( 7 marks )
- 9) The hypothalamus can efficiently regulate our body temperature under normal physiological conditions, Explain. ( 8 marks )
- 10) Give a brief account on the mechanism of secretion and functions of gastrin hormone. ( 7 marks )

ستعقد الإمتحانات الشفهية في تمام الساعة الثامنة والنصف صباحا.

يوم الأثنين الموافق ١ / ٦ / ٢٠١٥