

**QP Code:102114**

**Reg. No.:.....**

**PG Degree Supplementary Examinations in Physiology (MD)  
October 2018**

**Paper II - Systemic Physiology (Hematology, CVS, GIT, Respiratory System,  
Renal Physiology)**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essay: (20)**

1. Describe the functions of proximal and distal convoluted tubules.

**Short essays: (8x10=80)**

2. Describe with a help of a diagram the pressure volume changes in the ventricle during ventricular systole.
3. Factors regulating erythropoiesis.
4. Explain the regulation of respiration during exercise.
5. Mechanisms of carbon dioxide transport in blood.
6. Describe the various types of normal haemoglobin. Explain haemoglobinopathies.
7. Long term regulation of blood pressure.
8. Gastro intestinal reflexes
9. Mechanism of gastric acid secretion and regulation of gastric secretion

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