

**Q.P.Code:302379**

**REG. No:.....**

**Final Year M.Sc Medical Physiology Degree Supplementary Examinations,  
February 2016**

**Time: 3 hrs**

**Max. Marks:- 100**

**PAPER II**

**Physiology of Respiration, Renal Physiology, Skin & Temperature Regulation,  
Principles of Biophysics as Applied to Physiology**

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

**Essay: (20)**

1. Discuss neural regulation of respiration with experimental evidences

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

2. Counter current mechanisms in kidney and its significance.
3. How biological thermostat functions to regulate heat loss process.
4. Describe pressure flow and resistance inter-relationship in blood vessel dynamics.
5. Physiological changes in deep sea and remedial measures to be taken.
6. Hormones acting on renal tubules and their mechanism.
7. Central and peripheral chemo receptors.
8. Resting membrane potential in different tissues.
9. Law of Laplace and its application in our body systems.

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