

Q.P.Code:302379

REG. No:.....

**Final Year M.Sc Medical Physiology Degree Supplementary Examinations
February 2017**

Time: 3 hrs

Max. Marks:- 100

**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. Describe neural regulation of respiration in maintaining rate and depth of respiration.
Add a note on periodic breathing.

Short Essays: (8x10=80)

2. Mechanisms of concentration of urine
3. Sweat glands and their role in body temperature regulation
4. Carbon dioxide dissociation curves and Haldane's effect
5. Poiseuille's Law and its application in hemodynamics of circulation
6. Classify hypoxia giving examples and describe the effects of hypoxia on various systems
7. Vital capacity, timed vital capacity and breathing reserve as lung function tests
8. Urinary bladder innervation and mechanism of micturition reflex.
9. Renal tubular secretions and their significance in pH regulation
