

Q.P.Code:302379

Reg. No:.....

**Final Year M.Sc Medical Physiology Degree Supplementary
Examinations February 2018**

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

Time: 3 hrs

Max. Marks: 100

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

Essay: (20)

1. Draw a nephron. List the steps in urine formation. Explain the first step.

Short Essays: (8x10=80)

2. Describe the salient features of renal circulation.
3. Describe the role of kidneys in the regulation of body fluid volume and pH.
4. List the functions of skin. Explain the role of skin in this regulation of body water
5. Draw a normal spiogram. Explain the various lung volumes and capacities
6. Define and classify hypoxia. Explain the causes and effect of hypoxia on body
7. Explain how carbon dioxide is transported from tissues to lungs by blood.
8. Describe the organization of respiratory centers. Explain their role in regulation of respiration.
9. What is ventilation perfusion ratio and mention its normal value. Explain its clinical significance.
