

Q.P.Code:302379

Reg. No:.....

**Final Year M.Sc Medical Physiology Degree Supplementary
Examinations February 2019**

**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. Mechanisms involved in the formation of concentrated and acidic urine.

Short Essays:

(8x10=80)

2. Heat loss mechanisms in the regulation of body temperature
3. Compliance of lungs and thorax
4. Medullary and pontine respiratory centers and their role in respiration
5. Poiseuille's law and its application in hemodynamics of circulation
6. Effect of voluntary hyperventilation and muscular exercise on respiration
7. Cystometrogram and central control of micturition
8. Renal plasma clearance study and its applications
9. Oxygen dissociation curve and factors influencing it.
