

Q.P. Code:302379

Reg. No:.....

**Third Year M.Sc Medical Physiology Degree Regular/Supplementary
Examinations September 2021**

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

Time: 3 hrs

Max. Marks: 100

- *Answer all questions to the point neatly and legibly*
- *Do not leave any blank pages between answers*
- *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together*
- *Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay:

(20)

1. Explain the mechanism of respiration with a note on different pressures and volumes

Short Essays:

(8x10=80)

2. Counter- current mechanism
3. Juxta – Glomerular Apparatus and its functions
4. Buffer system for acidification of urine
5. Heat loss mechanism in control of body temperature
6. Reynolds number and its role in blood flow
7. Compliance of the lung
8. Functional residual capacity: Definition, normal value and its significance
9. Define plasma clearance. Name the different clearances and its uses
