

Q.P. Code:302379

Reg. No:.....

**Third Year M.Sc Medical Physiology Degree Regular/Supplementary
Examinations November 2020**

**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. Describe in detail the mechanism of regulation of respiration

Short Essays:

(8x10=80)

2. Define glomerular filtration rate. Explain the factors that influence it.
3. What is the principle in dialysis. What are the types and the clinical application.
4. Innervation of bladder and micturition reflex
5. Heat gain mechanism in control of body temperature
6. Explain briefly the transport of O₂ in blood. Add a note on oxygen dissociation curve
7. Pulmonary function tests
8. Law of Laplace and its application in the body system
9. What is a diuretic. Name the different types of diuretics acting on the renal tubules
