Q.P.Code:302379	Reg. No:

Final Year M.Sc Medical Physiology Degree Examinations September 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. Describe the transportation of oxygen from the lungs to the tissue by the blood. Add a note on oxygen haemoglobin dissociation curve.

Short Essays: (8x10=80)

- 2. Name the respiratory muscles. Explain their role in normal and vigorous breathing. Show the changes in intra pleural and intrapulmonary pressure during respiratory cycle.
- 3. Write in detail about neural regulation of respiration.
- 4. Draw a diagram of respiratory membrane. Explain the factors effecting diffusion of oxygen across respiratory membrane.
- 5. Define pulmonary function tests. Give examples and their significance.
- 6. Describe the innervations of urinary bladder. Explain the act of micturition.
- 7. Describe the role of skin in regulation of body temperature and water balance.
- 8. Describe the various aspects of re absorption of glucose at the renal tubule.
- 9. What is artificial kidney. Describe the physiological basis of artificial kidney.
