

March 2009

[KU 122]

Sub. Code: 2019

M.D. DEGREE EXAMINATION

Branch V – PHYSIOLOGY
(Common to all candidates)

**Paper II – CIRCULATION, RESPIRATION, ENVIRONMENTAL
PHYSIOLOGY, COMPARATIVE PHYSIOLOGY
AND EXCRETION**

Q.P. Code : 202019

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 x 20 = 40)

1. Discuss the renal control of Acid-base balance.
2. Explain elaboratively the regulation of arterial blood pressure.

II. Write short notes on :

(10 x 6 = 60)

1. CHEMORECEPTORS.
2. Pulmonary function tests.
3. Periodic breathing.
4. Ventilation perfusion ratio.
5. Cardio respiratory changes during exercise.
6. Oedema.
7. Poiseuilles law.
8. Endocrine functions of kidney.
9. Cystometrogram.
10. Osmotic diuresis.

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*Q.P. Code : 202019***

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 x 20 = 40)

1. Discuss the pathophysiology of circulatory shock.
2. Explain in detail the renal tubular functions with experimental evidences.

II. Write short notes on :

(10 x 6 = 60)

1. Renal buffers.
2. Micturition reflex.
3. Renal clearance values.
4. Glomerular filtration.
5. Hypoxia.
6. Timed – vital capacity.
7. Cardiac arrhythmias.
8. Coronary blood flow.
9. Conducting system of heart.
10. Mechanics of respiration.
