

[LL 122]

OCTOBER 2017

Sub. Code: 2019

**M.D. DEGREE EXAMINATION**

**BRANCH V – PHYSIOLOGY**

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

*Q.P. Code :202019*

**Time : Three Hours**

**Maximum : 100 Marks**

**I. Essay:**

**(2 x 10 = 20)**

1. Write an essay on Mechanics of Breathing. Add a note on Respiratory Distress syndrome.
2. Describe in detail the various events along with the pressure volume changes during a cardiac cycle.

**II. Short Questions:**

**(8 x 5 = 40)**

1. Carbondioxide transport in the blood.
2. Sleep Apnea.
3. Cardio pulmonary changes during Exercise.
4. Poiseuille's Law.
5. Venous Return.
6. Sino Aortic Reflex.
7. Renal Autoregulation.
8. Role of Kidney in calcium homeostasis.

**III. Reasoning Out:**

**(4 x 5 = 20)**

1. Digitalis improves cardiac contractility.
2. Demeclocycline, an antibiotic, is useful in treating patients with Inappropriate Hypersecretion of Vasopressin. Give Reason.
3. Baroreceptors usually do not contribute for the Long term Regulation of Blood Pressure.
4. Salt restriction and diuretics are recommended in Hypertension.

**IV. Very Short Questions:**

**(10 x 2 = 20)**

1. Timed Vital Capacity.
2. Hering – Breuer Reflex.
3. Vagal Tone.
4. Vasomotor waves.
5. Factors influencing the Lymph flow.
6. Obligatory Urine Volume.
7. Limiting PH.
8. Renal Threshold for Glucose.
9. Orthostatic albuminuria.
10. Renal or Goldblatt Hypertension.

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