

(MAY 2020 SESSION)

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 Questions:****(2 x 15 = 30)**

1. (a) Define Blood pressure.
(b) Mention all the regulatory mechanisms of blood pressure.
(c) Describe in detail the short term regulation of blood pressure.
2. (a) Write in detail about regulation of respiration.
(b) Add a note on abnormal breathing.

II. Short notes:**(10 x 5 = 50)**

1. Renal handling of sodium.
2. Renal function tests.
3. Renal transplantation.
4. Acidification of urine.
5. Stokes Adam syndrome.
6. Left ventricular Pressure – Volume diagram.
7. Hemorrhagic shock.
8. Peculiarities of Pulmonary circulation.
9. High Pressure nervous syndrome.
10. Respiratory changes during exercise.

III. Reasoning Out:**(4 x 5 = 20)**

1. Dilated heart has to do more work than non-dilated heart.
2. Renal efferent arteriolar constriction has a biphasic effect on glomerular filtration rate.
3. Oxygen therapy is not of much use in anemic hypoxia. Reason out.
4. ACE inhibitor is contraindicated in hypertension due to renal artery stenosis. Reason out.
