

162-NR

M.D. DEGREE EXAMINATION – APRIL, 2014

SYSTEMIC PHYSIOLOGY

Paper-III : CNS, CVS, RS and Special Senses

Time: 3 Hours

Max. Marks: 100

Note: Answer all questions
Draw diagrams wherever necessary
All questions carry equal marks

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Pressure-volume relationship of left ventricle and effects of ventricular dysfunction on it.
- 2) Action potential of a cardiac muscle fiber and its ionic basis.
- 3) Baroreceptor reflex regulation of blood pressure.
- 4) Oxygen-hemoglobin dissociation curve and factors affecting it.
- 5) Chemical control of respiration.
- 6) Properties of receptors.
- 7) Central and peripheral modulation of pain.
- 8) Connections and functions of cerebellum.
- 9) Role of hypothalamus in food intake.
- 10) Travelling wave hypothesis in hearing.
