

503-A

DR. NTR UNIVERSITY OF HEALTH SCIENCES:AP:VIJAYAWADA-520 008
M.B.B.S. DEGREE EXAMINATION – AUGUST, 2015
FIRST M.B.B.S. EXAMINATION
PHYSIOLOGY
PAPER-I

Time : 2 ½ Hours

Max. Marks: 50

Note : Answer all questions

Give diagrammatic representation wherever possible

1) Define Cardiac output? Describe the various factors regulating cardiac output. 2+8=10

2) Describe the mechanism of Respiration. Define lung compliance. Mention any two conditions which reduce lung compliance. 5+3+2=10

WRITE SHORT NOTES ON: 5x4=20

3) Define 'renal clearance'. What do PAH and inulin clearance indicate about renal function.

4) Describe the fate of hemoglobin of the damaged RBCs following hemolysis.

5) Outline intrinsic pathway of clotting. Add a note on anticoagulants.

6) Enterohepatic circulation and its physiological importance.

7) Functions, hormonal regulation of exocrine pancreatic secretion.

WRITE BRIEFLY ON: 5x2=10

8) Define diffusion. Describe any four factors affecting diffusion in terms of Fick's Law.

9) Cause and normal duration of P-R interval

10) Draw a diagram for innervation of the urinary bladder.

11) Explain the proximal tubular handling of Na⁺.

12) Define ESR and mention its normal value. List any two factors that influence it
