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M.B.B.S. PHASE - I Degree Examination – DECEMBER 2015

Time: 3 Hrs.

PHYSIOLOGY - I (RS2 & RS3)

QP Code: 1077

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary.

LONG ESSAY

- Define cardiac cycle and describe the mechanical changes during a cardiac cycle. 1.
- 2. Explain oxygen transport from the lungs to the tissues.

SHORT ESSAY

- 3. Functions of plasma proteins
- Describe the fate of haemoglobin following haemolysis. 4.
- 5. Explain the second stage of deglutition.
- 6. Describe the actions of bile salts. Name the effects of bile duct obstruction.
- 7. Cholecystokinin - pancreozymin
- 8. Define glomerular filtration rate and describe the factors affecting it.
- 9. Sinoaortic reflex
- 10. QRS complex
- Briefly describe the changes occurring during acclimatization to high altitude. 11.
- Explain the role of inspiratory and expiratory muscles in normal respiration. 12.

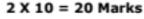
SHORT ANSWERS

- Name the methods of measurement of cardiac output.
- Three functions of saliva
- Functions of collecting duct
- Explain the role of 'Vasa recta' in renal functioning.
- 17. Differences between pulmonary and systemic circulation

Mary N.

- Axon reflex
- 19. Intercellular communication
- Physiological dead space
- Cross matching
- Important features of iron deficiency anaemia 22.

10 X 3 = 30 Marks



10 X 5 = 50 Marks



[Max. Marks: 100]