

**M.B.B.S DEGREE EXAMINATION, July-2019****First M.B.B.S Examination PHYSIOLOGY PAPER-I****Time: 2 ½ Hours****Max. Marks: 50**

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**Note: Answer all questions: Illustrate your answer with suitable diagrams.**

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**I. LONG ESSAYS (2 x 10 = 20)**

1. Draw the labelled diagram of the conduction system of the heart. Explain the pathway and its importance. Add a note on cardiac action potential. **[2+6+2=10]**
2. Describe the mechanism of formation of concentrated urine. Add a note on Diuretics. **[7+3=10]**

**II. WRITE SHORT NOTE ON (5 x 4 = 20)**

3. Erythropoiesis.
4. Transport mechanism across the cell membrane.
5. Define hypoxia. Explain the types with examples.
6. Describe the movements of the small intestine.
7. Intercellular connections.

**III. WRITE BRIEFLY ON (5 x 2 = 10)**

8. Define dead space and give its importance.
  9. Functions of plasma proteins.
  10. Functions of the large intestine.
  11. Parasympathetic innervation of the urinary bladder
  12. Name the methods of measurement of cardiac output
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