

**First Professional MBBS Degree Examinations - August 2016****PHYSIOLOGY- PAPER I****Time: 3 Hours****Total Marks: 50**

- Answer all questions
- Draw Diagrams wherever necessary

**Long essay****(10)**

1. A 30 years old women visits a clinic with the complaints of difficulty in breathing and fatigue. She has menorrhagia for the past 3 months. Her Hb level is 6gm%, PCV 20% and MCV is 62 cubic micron. Answer the following:

- Name the clinical condition.
- Describe the blood picture in this condition.
- Classify anemia based on etiology.
- Describe iron deficiency anemia.

**(1+2+3+4=10)****Short essays****(2x5=10)**

2. Long term regulation of blood pressure
3. Chemical regulation of respiration

**Answer briefly****(5x3=15)**

4. Functions of saliva
5. T lymphocyte
6. Juxtaglomerular apparatus
7. Ventilation perfusion ratio.
8. P-R interval

**Draw and label****(2x2½ =5)**

9. Conducting system of heart
10. Oxygen dissociation curve

**Explain the physiological basis of the following****(5x2=10)**

11. Physiological shunt
12. Postprandial alkaline tide
13. Rh incompatibility
14. Urine output is decreased in summer season
15. Gastrectomy produces pernicious anemia

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