

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
