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First Professional MBBS Degree Supplementary Examinations January 2020 Physiology - Paper I

Time: 3 Hours Total Marks: 50

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together *Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Long essay (10)

- A 12 years old girl child complains of lethargy and fatigability for the last three
 months. Physical examination revealed pallor. Routine blood investigation showed
 Hb -8 gm% and peripheral smear revealed microcytic hypochromic RBCs. Answer the
 following:
 - Identify the clinical condition and what is the cause
 - Define anemia.
 - Classify anemia based on etiology.
 - · Enumerate stages of erythropoiesis and discuss the factors regulating them

(1+1+3+5)

Short essays (2x5=10)

- 2. Discuss factors regulating cardiac output.
- Explain pressure changes during normal respiratory cycle.

Answer briefly (5x3=15)

- 4. Heart sounds
- Functions of bile.
- Tubulo-glomerular feedback
- Neutrophil.
- Active transport.

Draw and label (2x2½ =5)

- Respiratory membrane.
- 10. Pacemaker potential.

Explain the physiological basis of the following

(5x2=10)

- Steatorrhoea following pancreatectomy.
- 12.PR interval is prolonged in first degree heart block
- Acute respiratory distress syndrome is seen in premature infants.
- 14.Polycythemia in high altitude
- Splenectomy in idiopathic thrombocytopenic purpura.

