



**MBBS FIRST PROFESSIONAL (PART-I)**  
**MODEL QUESTIONS FOR ANNUAL 2009**

**Physiology**  
**(Multiple Choice Questions)**

- Q.1** A baby was born with erythroblastosis fetalis. Her blood group was A+. For the exchange transfusion, the baby must receive blood with the group:
- A-
  - B-
  - A+
  - B+
  - AB-
- Q.2** In a young female having iron deficiency, her blood tests show hemoglobin=8g/dl, MCV=75 fl, MCH=26 pg, MCHC= 28 g/dl. The type of anaemia she is suffering from:
- Hypochromic normocytic.
  - Hypochromic microcytic.
  - Normochromic normocytic.
  - Normochromic microcytic.
  - Normochromic macrocytic.
- Q.3** Mr. A was suffering from high grade fever and sore throat. He consulted an ENT specialist who diagnosed him to have acute tonsillitis. He was advised to have complete blood picture done. The total leucocyte count in his blood picture was likely to be:
- 4,000/ $\mu$ l.
  - 6,000/ $\mu$ l.
  - 8,000/ $\mu$ l.
  - 10,000/ $\mu$ l.
  - 14,000/ $\mu$ l.
- Q.4** A man is performing exercise. His heart rate increases due to sympathetic stimulation. This effect is due to increased permeability of the SA nodal fiber membrane to:
- Bicarbonate.
  - Chloride.
  - Chloride and sodium.
  - Calcium and sodium.
  - Sodium and potassium.
- Q.5** A young man weighing 70 kg has body surface area=1.7 square meter and cardiac output at rest=5.5 L/minute. His cardiac index (L/min/m<sup>2</sup>) will be about:
- 2.
  - 2-5.
  - 4.
  - 3.
  - 5.

- Q.6 A navy worker remained in deep sea for about 8 hours. He came to the surface of sea rapidly against the standard protocol. Some time after his ascent to the sea level, he developed certain complaints which were due to:**
- a) Gas mixture which he was breathing in deep sea.
  - b) Exposure to the atmosphere.
  - c) Low pressure in the atmosphere.
  - d) Formation of nitrogen bubbles in his body.
  - e) Toxicity of carbon dioxide.