**Second question: (1 hour, 24 marks)**

**A- Complete the following: (4 marks)**

1. Factors that influence airway resistance include ………............................, …………………………,…………………………………………………
2. Oxygen – hemoglobin dissociation curve is affected by ……………......., …………………….………………,……………………………………
3. .……………… receives blood returning from the systemic circulation; the……………….receives blood from the lungs.

**B- Give a brief account about two of the followings: (10 marks)**

1. Liver in starvation.
2. Decompression sickness.
3. Chronic mountain sickness.

**C- Explain the following: (10 marks)**

1) Increased diffusing capacity after acclimatization to low PO2.

2) Natural acclimatization of native human being living at high altitudes.

3) Using helium instead of nitrogen in very deep dives.

4) Effect of synthesis of ketone bodies during starvation.