Write short notes on:

1. How would you evaluate and manage a case of difficult to treat asthma?  
   **5+5**

2. a) What are ANCA related vasculitides?  
   b) Clinical features and management of a case of Wegener’s granulomatosis.  
   **3+7**

3. Various non respiratory complications of severe COPD.  
   **10**

   **5+5**

5. a) Pulmonary manifestations of rheumatoid arthritis.  
   b) How would you treat such a patient?  
   **6+4**

6. a) What is acid-base physiology?  
   b) Systematic approach to analyze an arterial blood gas report.  
   **4+6**

7. a) How will you assess severity of community acquired pneumonia?  
   b) Management of such a case in ICU.  
   **4+6**

8. a) Acute mountain sickness.  
   b) Etiopathogenesis and management of high altitude pulmonary edema.  
   **3+7**

9. a) What are the different parameters used to describe the quality of air?  
   b) Various harmful effects of air pollution.  
   **4+6**

10. Etiopathogenesis, diagnosis and treatment of Idiopathic Pulmonary Fibrosis (IPF).  
    **3+3+4**

***********************************************************************