Write short notes on:

1. a) Define atopy.  
   b) Outline the pathophysiology of bronchial asthma.  
   c) Pulmonary function abnormalities in bronchial asthma.  

2. a) What is exfoliative dermatitis? Enumerate its causes.  
    b) What haemodynamic alterations are expected in such a patient?  
    c) Medical complications of generalized exfoliation.  

3. a) Case control study.  
    b) Its advantages and disadvantages.  

4. a) Neural circuit responsible for the cough reflex.  
    b) Enumerate causes of cough.  
    c) Clinical histories and findings which would help to localize the cause of cough in a given individual.  

5. a) What is autologous bone marrow transplantation?  
    b) What are its indications?  
    c) Complications of bone marrow transplantation.  

6. a) Define secondary diabetes and enumerate its causes.  
    b) What investigations will you perform in a patient with suspected secondary diabetes?  

7. a) When will you suspect that a patient is suffering from panhypopituitarism?  
    b) What clinical features give a clue to your diagnosis?  
    c) What investigations are needed to confirm your diagnosis?  

8. a) Peripartum cardiomyopathy.  
    b) Puerperal psychosis.  

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9. a) How is temperature regulated in the body?  
b) How is it altered in presence of an invading viral illness?  
c) How does it differ from a patient having high fever after a prolonged sun exposure?

4+3+3

10. a) Principles of adult immunization.  
b) Immunization of a healthy 70 year old female.  
c) Immunization of a 40 years old male with splenectomy.

4+3+3

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