Write short notes on:

1. a) What is auto transfusion?  
   b) What are the different blood components?  
   c) What are the indications of blood transfusions in ENT?  

2. a) What is neoadjuvant chemotherapy?  
   b) What is the rational behind its use?  
   c) Advantages and disadvantages of neoadjuvant chemotherapy.

3. a) What is image guided surgery?  
   b) Steps of image guided surgery.  
   c) Indications of image guided surgery in Otology.

4. a) What are the tributaries of Internal Jugular Vein?  
   b) Complications of radical neck dissection.

5. Principles, advantages, disadvantages and clinical applications of PET (Position Emission tomography).

6. a) What is electronic nose?  
   b) What is its relevance in modern rhinology?

7. a) Classify the drugs used in management of allergic rhinitis.  
   b) What are the advantages and disadvantages of these drugs?

8. a) What is brachytherapy?  
   b) Its clinical application in Otolaryngology.

9. a) What is clinical audit?  
   b) What is the use of clinical audit in ENT?

10. a) Design of a randomized control trial (RCT).  
     b) What are the types of RCT?  
     c) What is blinding?  

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