Write short notes on:

1. a) What are hypersensitivity reactions?  
   b) Mechanism of anaphylaxis.  

2. a) Intrinsic pathway of coagulation.  
   b) Pre-operative evaluation for coagulation profile.  

3. a) What is HAART?  
   b) Classify drugs used for treatment of AIDS.  
   c) Their merits and demerits.  

4. a) What is cervical necrotizing fasciitis?  
   b) Etiology, symptoms, complications and treatment of cervical necrotizing fasciitis.  

5. (a) Define free tissue transfer.  
   (b) What are its advantages as compared to pedicle flap in Head & Neck reconstruction?  

6. a) Principles of Functional MRI.  
   b) What is perfusion functional MRI?  
   c) Uses of functional MRI in otology.  

7. (a) Cell Cycle.  
   (b) What are the chemotherapeutic targets & their site of action?  

8. Role of gene therapy in Head & Neck cancers.  


10. Mechanism of action, antifungal spectrum, mode of administration and toxicity of Amphotericin B.