Write short notes on:

1. Pathophysiology and management of:
   a) Organophosphorus poisoning.  
   b) Scorpion bite.  

2. What are the biochemical criteria for the diagnosis of Diabetic Ketacidosis (DKA)? What are the goals of therapy? How will you manage a 7 year child with DKA?  

3. Etiology, pathogenesis, clinical features and management of cardiogenic shock?  

4. Describe the symbols used in pedigree chart. Draw pedigree charts over four generation depicting:
   a) X-linked dominant disease.  
   b) X-linked recessive disease.  

5. Define severe dengue. Describe the WHO guidelines for its management. Enumerate the complications of severe dengue.  

6. a) Bioterrorism  
   b) Radiation sickness  
   c) Congenital cataract  

7. a) Modified Glasgow Coma Scale for children and infants.  
    b) Its advantages and disadvantages.  
    c) What is AVPU Pediatric Response Scale?  


9. a) Autistic spectrum disorders.  
    b) Wiskott-Aldrich syndrome.  
    c) Graft versus host disease.  

10. a) Hypernatremia.  
    b) Hyperkalemia.  
    c) Non-pharmacologic strategies for pain management.  

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POSSESSION / USE OF CELL PHONES OR ANY SUCH ELECTRONIC GADGETS IS NOT PERMITTED INSIDE THE EXAMINATION HALL.