Write short notes on:

1. a. Circle of Willis and its forensic importance.  
b. Carotid triangle of neck.  
   5+5

2. a. Pressure abrasion.  
b. Accidental strangulation.  
   5+5

3. a. Colour changes of contusion.  
b. Various antidotes.  
   5+5

4. The case of death is due to poisoning but viscera chemical analysis report is negative. What are its forensic intricacies?  
   10

5. a. Dangerous injury.  
b. Perjury.  
   5+5

6. a. Define brain stem death  
b. Molecular death.  
   5+5

7. What is mitochondrial DNA? Write a note on its forensic importance.  
   3+7

8. What is embolism? How will you conduct postmortem in a suspected case of fat embolism?  
   4+6

9. How will you differentiate between human hair and animal hair? Discuss the medico-legal importance of hair.  
   4+6

10. Describe anatomy of female genital tract with a labeled diagram. How can you correlate this with the genital injuries sustained during sexual assault?  
    4+6