Give an account on:

1. Neural coding of sensory informations.  
   Marks: 10

2. The primary motor area: location, body representation, neural connection and importance.  
   Marks: 10

3. Effects of UMN lesions.  
   Marks: 8

4. Role of cerebellum in regulation of voluntary movements.  
   Marks: 10

5. Functions of thyroid hormones (T₃ & T₄).  
   Marks: 10

6. a) Function of sertoli cells.  
   Marks: 6

   b) Causes and manifestations of female hypogonadism.  
   Marks: 6

7. Iry active transport of Na⁺ and cotransport in proximal convoluted tubule.  
   Marks: 10

8. a) Juxtaglomerular apparatus: components and function.  
   Marks: 6

   b) Micturetion reflex and reflexes.  
   Marks: 6

9. Principal salivary glands: enumerate, nerve supply and type of secretion of each one.  
   Marks: 7

10. Regulation of pancreatic secretion.  
    Marks: 7

11. Factors affecting BMR.  
    Marks: 7

12. Acclimatization to hot and cold weathers.  
    Marks: 7

13. Similarities and differences between the two types of retinal receptors.  
    Marks: 8

14. The organ of corti: structure and function.  
    Marks: 7

GOOD LUCK