**Nervous System**

**Chapters 12, 13 and 14**

1. **Function and Organization**
2. **Function**
3. **Divisions**
4. **Central Nervous System (CNS)**
5. **Peripheral Nervous System (PNS)**
6. **Sensory Division**
7. **Motor Division**
8. **Somatic motor division**
9. **Visceral motor division (Autonomic Nervous System)**
10. **Sympathetic Division**

1. **Parasympathetic Division**
2. **Central Nervous System**
3. **Spinal Cord**
4. **Functions**

**Conduction ­**

**Integration**

**Locomotion**

**Reflexes**

1. **Surface Anatomy**

**Regions**

**Enlargements**

**Cauda Equina**

**Meninges**

1. **Dura Mater**
2. **Arachnoid Mater**
3. **Pia Mater**
4. **Cross-Sectional Anatomy**

* 1. **White Matter**
  2. **Gray Matter**

1. **Spinal Nerves**
2. **Brain**
3. **Meninges**
4. **Ventricles**
5. **Regions**
6. **Brain Stem**
7. **Medulla Oblongata**

**ii.** **Pons**

1. **Midbrain**
2. **Cerebellum**
3. **Diencephalon**
4. **Thalamus** 
   * 1. **Hypothalamus**

1. **Cerebrum**
2. **Frontal**
3. **Parietal**
4. **Occipital**
5. **Temporal**

1. **Insula**
2. **Universal Properties of Neurons**
3. **Excitability**
4. **Conductivity**
5. **Secretion**
6. **Functional Classes of Neurons**
7. **Sensory Neurons**
8. **Interneurons**
9. **Motor Neurons**
10. **Structure of a Neuron**
11. **Soma (Cell body)**
12. **Dendrites**
13. **Axon**
14. **Axonal Hillock**
15. **Terminal Arborization**
16. **Synaptic Knobs**
17. **Associated structures**
18. **Myelin**
19. **Neurilemma**
20. **Nodes of Ranvier**
21. **Supportive Cells (Neuroglia) and Myelin**
    * + 1. **Supportive Cells (Neuroglia)**
22. **Oligodendrocytes**
23. **Ependymal Cells**
24. **Microglia**
25. **Astrocytes**
26. **Schwann Cells**
27. **Satellite Cells**
    * + 1. **Myelin**
28. **Electrophysiology of Neurons**
29. **Electrical Potentials and Currents**
30. **Resting Membrane Potentials**
31. **Local Potentials**
32. **Threshold Potentials**
33. **Action Potentials**
34. **Signal Conduction**
35. **Unmyelinated Fibers**

1. **Myelinated Fibers**
2. **Synapses**
3. **Presynaptic neuron**
4. **Synaptic cleft**
5. **Postsynaptic neuron**