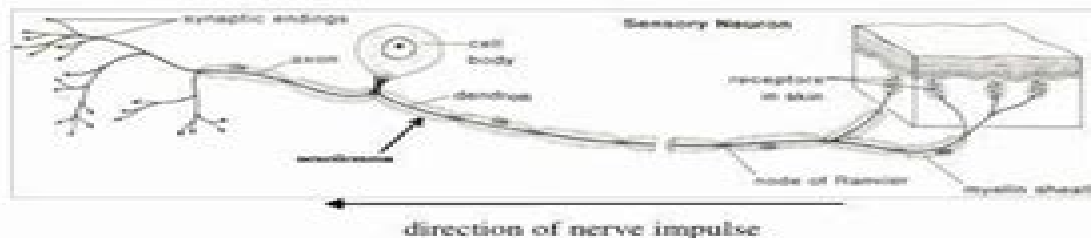


Chapter 13: Nervous System

1. Central nervous system (CNS) consists of *brain and spinal cord*, Peripheral nervous system (PNS) consists of *cranial nerves and spinal nerves*.
2. CNS does not come in direct contact with external environment. PNS comes in direct contact with external environment.



Neurone part	Form and function
Cell body	Contains nucleus and much of cytoplasm; most of the metabolic activity of the cell occurs here
Axon	Transmits impulses away from the cell body
Dendrons	Transmits impulses towards the cell body
Dendrites	Terminal branches on axons and dendrons
Myelin sheath	Layer of fatty substance that encloses the nerve fibre and insulates axon
Neurilemma	Thin membrane surrounding myelin sheath
Motor end plate (applicable to motor neuron)	Junction between dendrite and muscle fibre
Nodes of Ranvier	Regions where myelin sheath is absent allow nerve impulses to jump from node to node, increasing the speed of nerve transmission

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Sampson Low



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Mind as Machine Margaret A. Boden, 2006 Cognitive science is among the most fascinating intellectual achievements of the modern era The quest to understand the mind is an ancient one But modern science has offered new insights and techniques that have revolutionized this enquiry Oxford University Press now presents a masterly history of the field told by one of its most eminent practitioners Psychology is the thematic heart of cognitive science which aims to understand human and animal minds But its core theoretical ideas are drawn from cybernetics and artificial intelligence and many cognitive scientists try to build functioning models of how the mind works In that sense Margaret Boden suggests its key insight is that mind is a very special machine Because the mind has many different aspects the field is highly interdisciplinary It integrates psychology not only with cybernetics AI but also with neuroscience and clinical neurology with the philosophy of mind language and logic with linguistic work on grammar semantics and communication with anthropological studies of cultures and with biological and A Life research on animal behaviour evolution and life itself Each of these disciplines in its own way asks what the mind is what it does how it works how it develops and how it is even possible Boden traces the key questions back to Descartes's revolutionary writings and to the ideas of his followers and his radical critics through the eighteenth and nineteenth centuries Her story shows how controversies in the development of experimental physiology neurophysiology psychology evolutionary biology embryology and logic are still relevant today Then she guides the reader through the complex interlinked paths along which the study of mind developed in the twentieth century Cognitive science covers all mental phenomena not just cognition knowledge but

also emotion personality psychopathology social communication religion motor action and consciousness In each area Boden introduces the key ideas and researchers and discusses those philosophical critics who see cognitive science as fundamentally misguided And she sketches the waves of resistance and acceptance on the part of the media and general public showing how these have affected the development of the field No one else could tell this story as Boden can she has been a member of the cognitive science community since the late 1950s and has known many of its key figures personally Her narrative is written in a lively swift moving style enriched by the personal touch of someone who knows the story at first hand Her history looks forward as well as back besides asking how state of the art research compares with the hopes of the early pioneers she identifies the most promising current work Mind as Machine will be a rich resource for anyone working on the mind in any academic discipline who wants to know how our understanding of mental capacities has advanced over the years

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Digest; Review of Reviews Incorporating Literary Digest, 1900

Literary Digest: a Repository of Contemporaneous Thought and Research as Presented in the Periodical Literature of the World Edward Jewitt Wheeler, Isaac Kaufman Funk, William Seaver Woods, 1900

Study Guide to Accompany Drug Therapy in Nursing Diane S. Aschenbrenner, Samantha J. Venable, 2005 The perfect companion to Drug Therapy in Nursing Second Edition this invaluable study partner delivers guidance on individual patient management from a nurse as caregiver perspective helping you build essential knowledge and develop sound practice skills Knowledge building features include Top Ten Things to Know lists key terms multiple choice questions case studies and critical thinking challenges A Just the Facts feature helps deepen your understanding of essential drugs their actions indications contraindications and cautions A Patients Please feature helps you put the needs of the patient first with facts on core patient variables

Albany Law Journal, 1870

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