BRAIN

3 three main divisions:	Forebrain (prosencephalon) (2 subdivisions telencephalon (endbrain) and diencephalon (interbrain).					Midbrain (mesencephalon)			Hindbrain (rhombencephalon) (2 subdivisions metencephalon (afterbrain) and the myelencephalon (marro			arrowbrain)
	Cerebrum: is the largest part of the brain and is composed of right and left hemispheres - joined by corpus callusum.	Diencephalon	Cerebellum: is located under the cerebrum	Brainstem: connects cerebrum and cerebellum to spinal cord. Controls lungs heart & blood pressure. Sits @ top of spine/receives messages from the rest of the body.	Occipital lobe	Temporal lobe	Parietal lobe	Frontal lobe Body movement (motor strip)	Cerebral cortex (Neocortex layers of the cerebral cortex)	Pons control areas for eye and face movements / Medula contains important control centers for the heart and lungs	Notes	
Functioning %												
Infection											1	
Reflux											1	
Energy blocks											1	
Functioning %	Pre-frontal cortex	Hypothalamus	Thalamus	Pituitary gland	Pineal gland	Amygdala (integrative centre for emotions, emotional behaviour, and motivation)	Hippocampas (regulates stimulation, emotion, learning, and memory)	Basal ganglia: includes the caudate, putamen and globus pallidus	Archicortex & paleocortex (part of the cerebral cortex) - cortical parts of the limbic system	Central Canal	Notes	
											-	
Infection											4	
Reflux											4	
Energy blocks											4	
	Limbic System this system: cingulate gyri, hypothalamus, amygdala (emotional reactions) and hippocampus (memory)	Spinal Cord (large ndle of nerve fibers)	Cranial nerves (1-12) originate from brainstem, exit skull through holes called foramina, travel to the body. (10 vagus)	Foramen magnum (the brainstem exits the skull through the FM)	Anterior, middle and posterior fossae (in 3 regions)	Ependymal cells, which form a structure called the choroid plexus (CSF produced within this).	B rain parenchyma (ventricles) located within the BP	Rate CSF entering and leaving ventricles	Ventricles structures that produce CSF, and transport it around the cranial cavity. Communicating network of cavities filled with CSF. 2 lateral ventricles, 3rd ventricle, the serebral aqueduct, 4th ventricle. Choroid plexuese are located in the ventricles produce CSF, fills the ventricles and subarachnoid space, following a cycle of constant production and reabsorption.			Notes
Functioning %												
Infection												
Beflux												
Kenux												
Energy blocks	Foramen of Monro Aqueduct of Sylvius		Subarachnoid space CSF bathes and cushions the brain) Superior sagittal sinus called arachnoid villi. Cisterna Magna		Neccortex, set of layers (mammalian cerebral cortex), higher-order brain functions-sensory perception, cognition, generation of motor commands, spatial reasoning, language.		Mid-brain colliculi	Mid-brain tegmentum	Notes Mid-brain cerebral peduncies			
Functioning %												
Infection											-	
Reflux											-	
Farme blaste											-	
	Meninges membranous coverir spinal cord. 3 layers mening arachnoid mater and	ngs of the brain and es, dura mater, I pia mater.	Common carotid artery up the neck divides into the internal and external carotid arteries	Vertebral arteries (L+R) posterior circulation is fed right and left vertebral arteries join together to form the basilar artery.	Circle of Willis (two systems connect)	Vertebral-basilar systems	Anterior communicating (Acom) and posterior communicating (Pcom) arteries	Venous circulation of the brain	Venous sinuses collect blood from brain, pass to jugular veins	Superior and inferior sagittal sinuses drain the cerebrum	Cavernous sinuses drains the anterior skull base	
Functioning %					1							
Infection					1	1	1	1				
Reflux											<u> </u>	
Energy blocks					+	+					<u> </u>	
Energy blocks	Sigmoid sinuser all cinucer				I	+	I				Notor	
	eventually drain to SS Jugular veins (only drainage of the brain)		Neurons consist of: cell body, dendrites and an axon (where sacs containing neurotransmitters open into the synapse (tiny gap NTs 'talk'). Neurotransmitter molecules fit into special receptors on receiving nerve cell, stimulates that cell-pass on message.			Glia cells-glue cells of brain: provide neurons with nourishment, protection, and structural support (common with brain tumour)		Astroglia/astrocytes - caretakers — regulate blood/brain barrier. Control homeostasis, neuronal defense, repair, scar formation, affect electrical impulses		Oligodendroglia cells-create fatty substance (myelin) insulates axons – allows electrical messages travel faster		
Functioning %												
Infection												
Reflux												
Energy blocks												
Functioning %	Ependymal cells line the ve cerebrospinal fluid	ntricles, secrete I (CSF).	Microglia: brain's immune cells, protect from invaders, clean up debris. Prune synapses formation, affect el			kers — regulate blood/brain neuronal defense, repair, scar lectrical impulses – allows ele		te fatty substance (myelin) trical messages travel faster secrete cerebrospinal fluid (CSF).		Microglia: brain's immune cells, protect from invaders, clean up debris. Prune synapses	Notes	
Infection					1						1	
Define											4	
Ketiux											4	
Energy blocks	1											