**Overdose-CNS Midterm- 1/03/2020**

ملاحظة1: هذه الأسئلة جمعت من ذاكرة الطالب فاحتمال وجود خطأ أو عدم دقة في صيغة الأسئلة أو الأجوبة وارد

ملاحظة 2: الامتحان كان 80 سؤال

**Anatomy**

1. **Mossy fibers comprise a large fraction of:**

* granule cell layer in dentate gyrus

1. **All of the following pairs is well matched EXCEPT:**

* Subiculum-Schaffer-entorhinal cortex

1. **Which of the following structures is located most anteriorly in temporal lobe?** 
   * Amygdala
2. **Which nuclei located most medially in cerebellum?**
   * Fastigial nuclei
3. **Which of the following is correct regarding internal capsule?** 
   * Links the thalamus and the frontal lobe
4. **What is the type of neurons comprising the dorsal root ganglion?** 
   * unipolar neurons
5. **which of the following structures compose gray matter of the spinal cord?**
   * Laminae
6. **Injury to which artery of the following cause paralysis of left side of the body?** 
   * right middle cerebral artery
   * right internal carotid artery
   * right anterior choroidal artery
7. **Which gyrus located anterior to insula?** 
   * opercular gyrus
8. **which of the following pairs is well matched?**
   * Most lateral cranial nuclei – SSA
9. **Which layer of cortex contains projection:** 
   * V
10. **injury of which of the following associated with hypertonia?**

* medullary RS tract

1. **injury to Medial RS tract result in?**

* hypotonia at the same side of injury

1. **Pale cells location:**

* between endothelial & epithelial basement membrane.

1. **Injury in which of the following will lead to loss of continuity of the circle of Willis?**

* longitudinal fissure

1. **Blockages of which of the following affects limbs?**

* Superior cerebellar

1. **Injury of which artery cause paralysis of the lower limp but spares the upper limb?**

* Anterior spinal artery at T12 level

1. **Which pairs of the following are located proximal to each other?**

* Obex & vagal trigone

1. **Which of the following form medial wall of lateral ventricle?**

* septum pellucidum

1. **Which is true regarding sensory root ganglia:**

* Afferent of peripheral nervous system

1. **Most posterior structure in spinal cord?**

* Lissauer’s tract

1. **Rostral to the midbrain:**

* Thalamus

1. **Inferior sagittal sinus drains in?**

* Straight sinus

1. **One of these sentences is true:**

* medial lemniscus is posterior to substantia nigra

1. **True about astrocyte’s end feet:**

* closely applied to basal lamina

1. **Which of the following is false regarding embryology?**

* spinal root is mixed

**Pharmacology**

1. **Which of the following drugs is the best choice in case of seizures with megaloblastic anima:**

* Phenytoin

1. **First drug associated with depression is:**

* Antihypertensive drug

1. **Which of the following is metabolite of serotonin?**

* 5-indole acetic acid

1. **Drug used in treating depression and attenuating withdrawal symptoms of nicotine in patient trying to quit smoking?**
   * Bupropion
2. **How MOA affect reuptake of NT** 
   * Degradation of excessive neurotransmitters
3. **Drug used for patients with Seizures, neuropathic pain and trigeminal neuralgia?** 
   * Carbamazepine
4. **Which of the melatonin analog?** 
   * Ramelteon
5. **Not very effective in panic disorder (take more than one week to become established):** 
   * Buspirone
6. **Which of the following not associated with barbiturate?**
   * Analgesia
7. **Which mood regulating drug is primarily excreted in urine so it's the best option for pts with hepatic impairment?** 
   * Lithium
8. **Neuroleptics drugs reduce which type of schizophrenia symptoms?**
   * Positive symptoms like hallucinations and delusions
9. **Which of the following drugs do not cause tardive dyskinesia?**
   * Clozapine
10. **A long case about a boy with absence seizures, what treatment do you give him?** 
    * Ethosuximide

**Physiology**

1. **Increased glucocorticoid such as cortisol cause a disruption of BDNF expression in:**

* Hippocampus

1. **Which one of the following not associated with schizophrenia?**

* feeling of worthlessness and inappropriate

1. **Which of the following defined as: “Impoverished speech and thinking”?**

* alogia

1. **Paraventricular nucleus:**

* the only brain site in closed afferent \_efferent reflex lobe with both sympathetic and parasympathetic NS

1. **Which of the following has direct effect on set point temperature?**

* prostaglandin E2 food

1. **which of the following is part of reward center?**

* nucleus accumbens

1. **Which of the following is Inhibitory neurotransmitter?**

* GABA

1. **Cause of increase intracranial pressure?**

* brain swelling (edema, bleeding)

1. **Which of following sentences regarding brain metabolism is true?**

* under normal condition almost all energy used by brain cells is supplied from blood but do not dependent on insulin

1. **Executive function is related to?** 
   * prefrontal cortex
2. **Speech understanding area:** 
   * Wernicke’s area
3. **Memory type which is based on specific events (experienced events):** 
   * episodic memory
4. **Deep sleep associated with:** 
   * delta wave
5. **Which area responsible for verbal memory?** 
   * Cerebral cortex
6. **Which structure of the following is related to emotions?**
   * Cingulum gyrus

**Microbiology**

1. **Which of the following false regarding viral meningitis?**

* Viral meningitis serious but not fatal in persons with normal immune systems

1. **Which of the following structures is affected by polio virus?**

* Neurons

1. **Classic clinical triad of bacterial meningitis:**

* fever, headache and nuchal rigidity (stiff neck)

1. **Most common cause of bacterial meningitis in children (ages 3–5 years):**

* H. Influenzae

1. **Most common cause of fungal meningitis:**

* Cryptococcus neoformans

**Pathology**

1. **Which one of the following tumors can metastasized in brain and cause intraparenchymal hemorrhage?**

* renal cell carcinoma

1. **which type of hemorrhage always presents with skull fracture except in infants?**

* epidural hemorrhage

1. **which of the following result due to impulsive force?**

* Diffuse axonal damage

1. **Recovery from transient ischemic attack needs?**

* 1 hour

1. **Which type of meningitis may cause arachnoid fibrosis?**

* Tuberculous meningitis

1. **Tabes dorsalis associated with**

* stamping gate and positive Romberg test

1. **Which of the following associated with astrocytoma& Alexander disease?**

* Rosenthal fibers

1. **Which of the following is true regarding kernohan’s notch?**

* compression on contralateral cerebral peduncle -- ipsilateral hemiparesis

1. **Which of the following microscopic structures is evidence that neurons are long living cells?**

* lipofuscin granule

1. **Can occur due to either impact or impulsive force:**

* concussion

**Biochemistry**

1. **Tay-Sachs diseases is caused by a genetic mutation on chromosome:**

* 15

1. **Which of the following not biogenic amine?**

* Glutamate

1. **Brain biopsy with Lewy bodies is diagnosed for?**

* Parkinson disease

1. **In pheochromocytoma which of the following metabolites is measured:**

* HVA (Homovanillic acid)

1. **Which of the following are related to cognitive?**

* Serotonin, dopamine & norepinephrine

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**Special thanks to everyone who contributed in listing these questions and answers.**