

TEST BANK

Doctor 2019

SUBJECT:

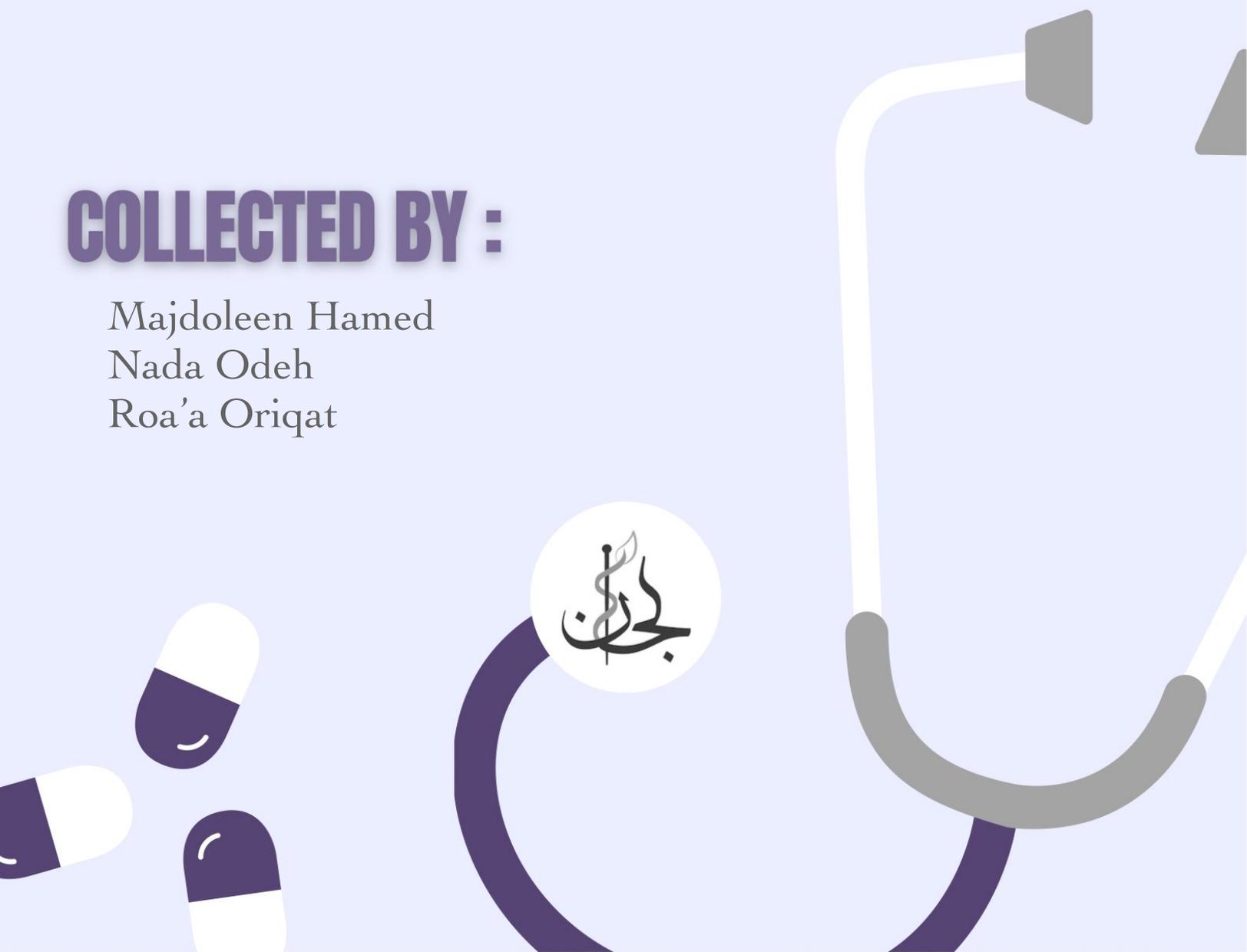
CNS-final 019

COLLECTED BY :

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جانب

Anatomy

1- Middle Cerebral Artery supplies:

Answer: lateral part of the orbital surface

2- Anterior Cerebral Artery occlusion cause a problem in:

A-smile

B-whistle

C-climb stairs

D-clench a fist

Ans:C

3- internal capsules separates the (.....) surface of the thalamus from the lentiform:

Answer: Lateral

4- patient doesn't understand spoken words and says weird thing due to lesion in:

Answer: areas 39,40

5- neocerebellum projects to:

Answer: dentate nucleus

6- septum pellucidum situated between:

Answer: the Fornex and the corpus callusom

7- What is the types of fibers that pass through posterior half of the posterior limb of the internal capsule:

Answer: superior thalamus radiation

8- lateral wall of the 3rd ventricle:

Answer: A+B (thalamus & hypothalamus)

9- tail of the caudate participated in:

Answer: the roof of the inferior horn of the lateral ventricle

10- has sth to do with the interruption of CSF flow between the 3rd and 4th ventricles:

Answer: cerebral aqueduct

11- rhombencephalon gives rise to:

Answer: medulla

12- myelination in the PNS

Answer: Schwann cells

13- stimulation of the right FEF (area 8):

Answer: move of both eyes to the left

14- temporal and frontal lobe connection by:

Answer: Uncinate fasciculus

Physiology

1- wrong about the vestibule:

Answer: nystagmus not present when the individual is blind

2- Lesion caused inappropriate social behaviors, occurs in:

Answer: frontal lobes

3- Destruction of cerebellum leads to the following EXCEPT:

- a. Impaired learning of coordination of repetitive tasks.
- b. Dysmetria
- c. Dysdiadochokinesia
- d. Hypertonia (rigidity)
- e. Ataxia

Answer: D

4- right about sleep

Answer: REM & beta waves

5- Inability of a person to understand the meaning of spoken words:

- a. Results from lesion in primary visual area
- b. Results from lesion in the temporal lobe
- c. Is a type of sensory aphasia.
- d. Results from lesion in Broca's area
- e. Is a type of motor aphasia

Answer: C

6- Which of the following statements regarding muscle spindle is FALSE?

- a. It has no contractile elements at all.
- b. Muscle spindle afferent does not fire if the muscle is actively contracted as extrafusal fiber shortened without intrafusal fiber being shortened.
- c. It is important as a feedback sensor to give information about muscle length.
- d. It contains nuclear bag and nuclear chain fibers which are responsible for dynamic and static responses, respectively.
- e. Increased A gamma motor efferent discharge to muscle spindle will lead to increased muscle spindle sensitivity to stretch.

Answer: A

7- The gamma motor neurons:

- a. Can control spinal motor neuron's discharge during voluntary movements.
- b. Supplies the extrafusal muscle fibers.
- c. Are not important for normal function of walking movement.
- d. When stimulated cause less discharge from the muscle spindle.
- e. Cause relaxation of intrafusal fibers when stimulated.

Answer: A

8- right about muscle spindle :

Answer: innervated by both efferent and afferent fibers

9- right about basal ganglia:

Answer: neural degeneration of the substantia nigra causes Parkinson's disease

10- striatum sends excitatory signals directly to:

none of the above (sends inhibitory signals through GABA)

11- right about cerebellum:

Answer: ipsilateral muscle control

12- wrong about cerebellum

Answer: Sends direct fibers to the motor neurons of action

13- right about reflexes:

knee jerk = stretch reflex

14- During a voluntary movement, the Golgi tendon organ provides the central nervous system with information about:

- a. The length of the muscle being moved.
- b. The change in joint angle produced by the movement.
- c. The tension developed by the muscle being moved.
- d. The blood flow of the muscle being moved.
- e. The velocity of movement.

Answer: C



1) which of the following is sign for base of Skull fracture:

Answer: raccone eye

2) Biconvex lens:

Answer: Extradural hemorrhage

Biochemistry

1) The statement that describes stem cells is:

- a. Changes in the niche have no effect on the behaviour of stem cells
- b. They can be used for cell- based therapy and modelling human diseases
- c. Their niche drive their differentiation and does not keep their stemness
- d. They have a limited ability to asymmetrically divide
- e. We can use them as a cell- based therapy directly after we test them in tissue culture disease models and they show an improvement of the disease

Answer: B

2) An excitatory neurotransmitter that leaks to the cytosol to be converted to another neurotransmitter, can be recycled through a presynaptic neuron transporter and degraded by the liver or presynaptic enzymes is:

- a. Gama-aminobutyric acid
- b. Glycine
- c. Norepinephrine
- d. Serotonin
- e. Acetylcholine

Answer: C

3) right about what scientists need to make sure of before using stem cells in the treatment of neurodegenerative diseases:

Answer: ability to remyelinate the axons and improve synapses in spinal cord injuries

Pathology

1-Histologic feature of old man have stooped posture :

Answer: Lewy bodies

2-neurofibrillary tangles:

Answer: tau

3-CAG repeat:

Answer: Huntington disease

4-True about Pilocystic astrocytoma

Answer: Do not have mutations in IDH1 and IDH2, or Co-deletion of 1p and 19q

5-True :

Answer: Metastatic Tumors often at the grey-white matter junction

Behavioral

1-Which of the following statements is true about non-verbal communication?

- a. It is mostly more important than verbal .
- b. It is mostly conscious .
- c. Paralanguage is not part of it .
- d. It communicates less than half of the message .
- e. It is not important during medical consultation

Ans: A

2-Which of the following statements regarding nonverbal communication is correct?

- a. Nonverbal communication expresses inner feelings better than verbal communication.
- b. Image is not part of nonverbal communication.
- c. Nonverbal communication is less important than verbal communication.
- d. Interpretation of nonverbal communication is not culture-dependent
- e. Non-verbal communication is conscious.

Ans: A

3-Which of the following statements regarding the psychophysiology of food intake is correct?

- a. Environmental temperature does not affect food intake .
- b. An insulin injection will decrease food intake immediately .
- c. Blood sugar level affects appetite and food intake .
- d. Food intake is regulated by one system in the human body .
- e. The lateral hypothalamus is the satiation center in the brain .

Ans: C

4- Which of the following statements regarding weight control is correct?

- a. Exercise is more important for weight loss in overweight individuals .
- b. Behavior therapy is not used in weight control treatments .
- c. Metabolic rate is increased in food deprivation states .
- d. Basal metabolism normally constitute one third of energy expenditure .
- e. Psychological factors do not play significant role in weight control .

Ans: A

5- right about social class:

Answer: method for social stratification

6- The followings are true about complex Society, EXCEPT ?

Answer: Members of a society are same ethnic groups

7- wrong about development:

Answer: enuresis more in girls

8- not from kinesics

A-clothing

B-facial expression

C-eye contact

D-posture

E-gestures

Ans:A

9- All of the followings are components of the sociocultural approach, EXCEPT ?

- a. Climate
- b. Language
- c. Upbringing
- d. Learning
- e. Experiences

Ans: A

10- Adaptive strategies to cope with “stress” include all of the following, EXCEPT?

- a. Regular physical exercising
- b. Joining a self-help group
- c. Using Relaxation techniques
- d. Having a time management schedule
- e. Sleeping after meals

Ans: E

11- doctor patient relationship encourages all of the following except:

Answer: less attention from the doctor to the patient’s experience of the illness

12- not a consequence of long term stress:

Answer: liver enzymes increased

Microbiology

1- right about TSEs

Answer: sporadic more common > 60 y.o

2-Choose the right sentence about immunity in CNS:

- a. The immune system is a critical part of a functioning central nervous system (CNS) even in the absence of injury
- b. Brain parenchyma doesn’t have immune cells even if injured
- c. Microglial cells have lower threshold than macrophages
- d. Neutrophils are the main immune cells in CNS

Ans: A

3- A 60 years old man has chronic meningitis for more than 12 weeks, there is no gram stain and the most abundant immune cells are lymphocytes:

A-mycobacterium tuberculosis

B-H. Influenza

Ans:A

4- rapidly progressive

Answer: subdural empyema of staph

5- altered level of consciousness without focal deficits

Answer: MRI to check if there is brain abscess

Pharmacology

1- broad spectrum drug:

Answer: Valproic acid

2- Less CVS effect:

Answer: Etomidate

3- wrong matching :

Answer: Clonazpine:relapse take weeks

4- Benzodiazepines:

Answer: inability to learn new information

5- wrong matching :

Answer: paroxetine >> decreased body weight

6- wrong matching :

Answer: nitrous oxide >> nephrotoxicity

7- wrong matching :

Answer: Anorexia >> dopamine

8- wrong matching :

Answer: LSD >> grandiosity

9- wrong about propofol :

Answer: increases blood pressure

10- wrong matching:

Answer: Amantidine >> Anticholinergic drug

11- Dopamine receptor agonists and Levodopa:

Answer: both are first line drugs in treatment of Alzheimer's

12- Ethosoxamide:

Answer: inhibits low-voltage activated T-type calcium channels in thalamocortical neurons

13- Wrong matching:

Answer :Mirtazipine act as an agonist

14- Which of the following drugs is not correlated with its side effect

A-Valproic acid : hepatotoxic

B-Topiramate:visual loss

C-Phentyoin:diplopia ataxia

Answer: B

15- Choose the right statement:

Answer: Ramelteon not produce muscle relaxation and anti convulsant

Practical part

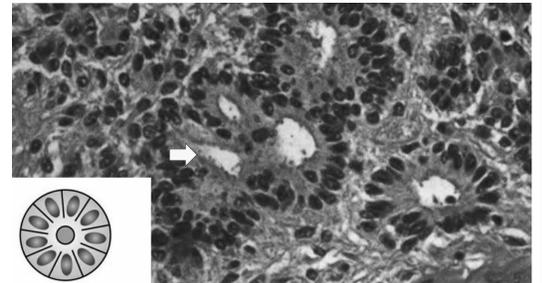
1-What is the best diagnosis according to this figure:

Answer: Parkinson's



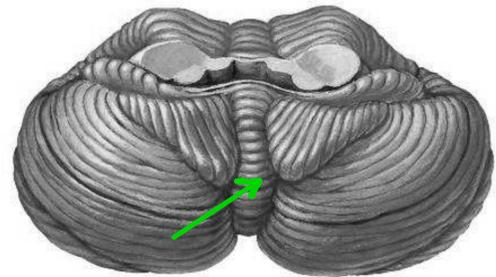
2-According to this histological representation of certain disease, what is the most common location?

Answer: Posterior fossa



3-Identify the pointed structure:

Answer: inferior vermis



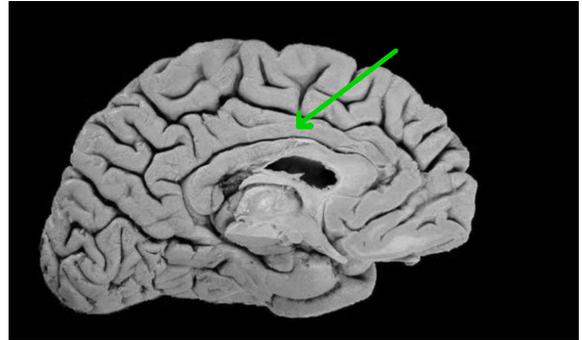
4-The pointed structure is situated between:

Answer: The Caudate and Lentiform nucleus



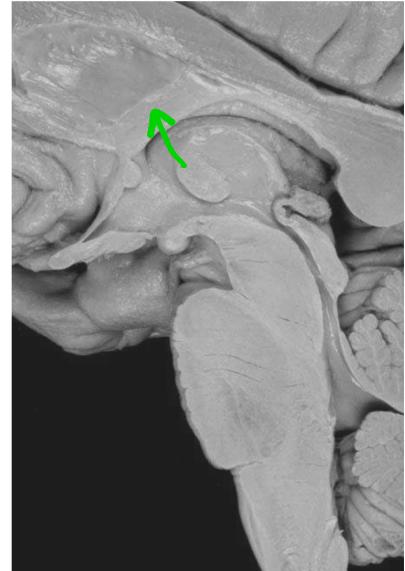
5-What is the function of the pointed gyrus:

Answer: Behavior and emotions



6-Identify the pointed structure:

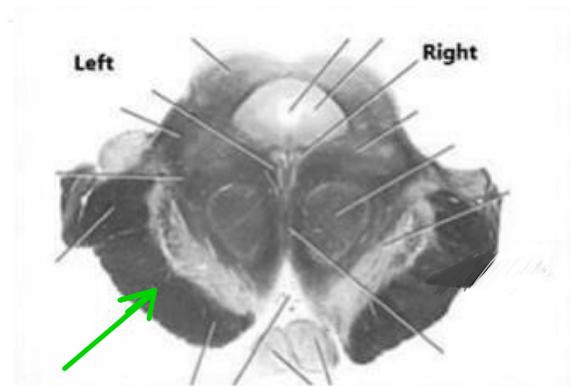
Answer: Fornix



7-The pointed area contains mainly :

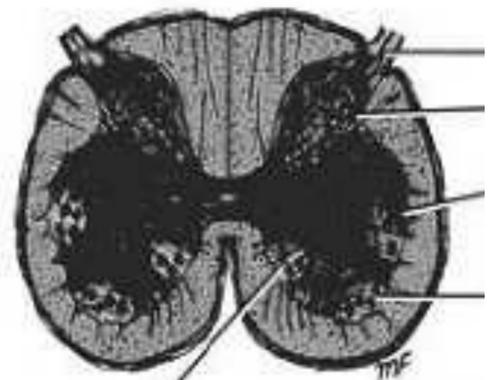
- a. Right pyramid
- b. Proprioceptive fibers from right side of body
- c. Corticospinal fibers that control right side of body
- d. Proprioceptive fibers from left side of body
- e. Corticospinal fibers that control left side of body

Ans:C



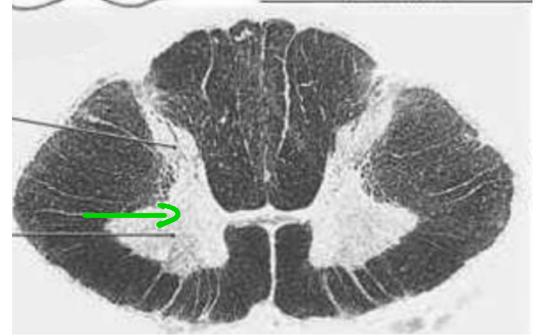
8-This cross section taken at level:

Answer: S3



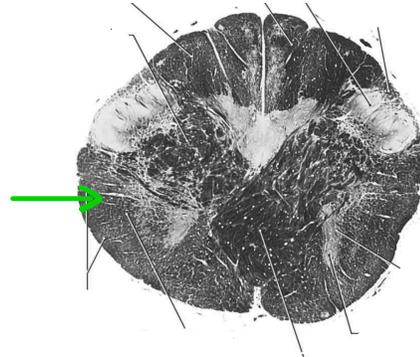
9-The cell bodies in the pointed area are cell of:

Answer: Lower motor neurons that supply upper extremities



10-The pointed area contains mainly:

Answer: Posterior spinocerebellar tract



11- During a neurological examination on a 30-year-old patient, you performed Rinne and Weber tests. Rinne test showed that air conduction was better than bone conduction in the LEFT ear, and air conduction was better than bone conduction in the RIGHT ear. The Weber test revealed localization to the RIGHT ear. What does this patient have ?

- a. Conductive hearing loss in the right ear
- b. Sensorineural hearing loss in the left ear
- c. Normal hearing
- d. Sensorineural hearing loss in the right ear
- e. Conductive hearing loss in the left ear

Ans: B

12- Inability to walk in tip toes:

Answer: ankle jerk absent or decreased

13- If the patient cannot see the largest font letter

Answer: reduce the test distance to 3 meters

14- not lower motor neuron injury

Answer: Positive Babinski reflex