AZRA NAHEED MEDICAL COLLEGE LAHORE

PHYSIOLOGY DEPARTMENT 2nd YEAR MBBS 2019-20

MID MODULAR TEST; CNS (Sensory System)

SEQs (SHORT EASSY TYPE QUESTIONS) ATTEMPT ALL QUESTIONS.ALL QUESTIONS CARRY EQUAL MARKS.

DATED: 31-12-2019 MARKS= 30 TIME= 40min Q1.A). child was trying to open the 5 cc disposable syringe, suddenly needle was stuck into his skin, he immediately felt sharp pain followed by dull pain sensation. Trace the complete pathway from skin to cerebral cortex, of these two types of pain sensations. B). Compare & contrast the properties of Meissner's corpuscles with Nociceptors. (1) Q2. A) Give functional classification of synapse. (2) B) Enumerate the properties of synaptic transmission. (2) C) Define Summation, What are its types. Q3. A) Classify receptors & give their innervation. (1.5)B) Enumerate the properties of receptors. (1.5)C) Describe mechanism of adaptation & give its importance. Q4.A forty years old male is brought to OPD following road side accident. The attending doctor finds loss of fine touch, pressure, and vibration sensation in the left leg, while the sensation of pain, crude touch, hot & cold are intact in left leg. (1.5)a. Which tract is damaged? (1.5)b. What is spatial orientation of nerve fibers in the affected tract? c. Enlist the differences between dorsal column & anterolateral system? (2) (2.5) (2.5)Q5. A) Draw the sensory homunculus. B) Give features & functions of somatosensory area I. (2) Q6. A) Define analgesia system & mention its components (1) B) Define referred pain & its mechanism. C) Write down at least three excitatory & inhibitory neurotransmitters.

	DATED: 4-2
Higher Brain Function Test	Roll No: 074
2" YEAR MBBS 2019- 2020	11011110
(Physiology)	NAME: M. Acide
Fillinger	IVALUE -
	RUCTIONS
3 and financial and employing to opposite hear a 3 and appropriate distances in column 2 and 2	
1. The primary motor area is located in	Q6. Amina got an accident since that tome she unable to recall the past memories. Which are
A. Frontal Lobe	unable to recall the past me m
B. Pre-central gyrus of frontal lobe tare	of brain is damaged? A. Limbur cortex
C. Post central gyrus of Parietal lobe(3221) D. Supplementary motor area 6	
E. Post central garus of frontal lobe	B. Dentate nucleus
	C Amygdala
2. Aslam is suffering from Mysthenia Gravis he	D. Philanes
a disorder of speech which is due to paralysis	E. Marcellary make of the hypotheterms
Muscle required for speech it is called A. Sensory aphasia	Q7. Major reward center is present in:
B. Motor aphasia	
C. Global aphasia	A. Ant. Nucleus of Hypothalassus.
D. Dysarthria	H water
E. Dyslexia	C. Lateral & Venezumantal condu
(8) 112 (8)	
3. Lesion of which part of brain will lead to loss	D. Peringurducted procures
recent memory (anterograde amnesia):	E. House steel.
A. Amygdale	QS. Bilateral lesions sevelving the concessors
R. Frontal lobe	hypothalamus lead to
C. Hippocampus D. Limbic cortes	A. Decreased nating and department
E. Hypothalamus	B. Loss of sexual diver-
E. Hispanianian	C. Dazenier entire, rape and approximate
94. The capacity of brain to ignore the	hyperactivity
nimportant informations due to inhibition of	B. Uterms community and manager plant
ynaptic pathway, is called?	
A. Positive memory	E. Obscure-computers decoder
B. Habituation	
C. Declarative memory	Q9. The circultum risythm is controlled by
D. Skill premery	A. Saprachipenetic resists
E. Negative memory.	B. Thalamo
and the second s	C. Red Sucleus
95. The long term memory results due to?	D. Modella oblesques
A. Closing of Ca. channels B. Increase in venicle release one for success	E. Raphy market
of transmitter substance	
47. Assessment the A. conductance	
1) Decreasing the action potential	
E. Inhibiting the symaptic transmission	

LAHORE

PHYSIOLOGY DEPARTMENT 2nd Year MBBS

MID MODULAR TEST

marks. Name :

I-All objective questions are to be attempted on the paper and returned to the invigilator within 20 mins

2-Any cutting and overwriting in objective part will not be accepted

Q1. A young boy experiences problem to make meaning out of the visually perceived words while reading a book. Otherwise he can still have excellent language comprehension through hearing. Most probable problem lies in which of the following area:

- A. Wernick's area
- B. Broca's area
- C. Angular gyrus area
- D. Secondary somatic area
- E. Primary somatic area

Q2. An interesting type of brain abnormality called prosopagnosia is inability to recognize faces. This occurs in people who have extensive damage

- A. The medial undersides of both occipital lobe and medioventral surfaces of the temporal
- B. The posterior part of parietal lobe
- C. Precentralgyrus
- D. Wernick's area in categorical hemisphere
- E. Cerebrocerebellum

Q3. Global Aphasia is caused by lesion of both:

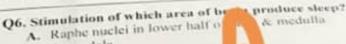
- A. Cerebeelum and basal ganglia
- B. Cerebellum and thalamus
- C. Cerebral cortex and hypothalamus
- D. Wide spread damage of Wernick's area Including angular gyrus
- E. Pons and medulla

Q4. Retrogarde amnesia indicates :-

- A. Inability to consolidate memories
- B. Inability to recall past memories
- C. Failure of working memory
- D. Presence of lesions in the hypothalamus
- E. Lesion of frontal cortex

Q5. The hypothalamic nucleus that acts as a biological clock of the body is:

- A. Supraoptic nucleus
- B. Preoptic nucleus
- C. Arcuate nucleus
- D. Suprachiasmatic nucleus
- E. Posterior nucleus



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Dated: 25-02-2020

- B. Amygdala
- C. Hippocampus
- D. Limbic cortex

Total Marks 20, Time 20mins Select Single best answer, all qu

E. Primary sensory area

Q7. Aslam is suffering from Mysthenia Gravis he has disorder of speech which is due to paralysis of muscle required for speech it is called

- A. Sensory aphasia
- B. Motor aphasia
- C. Global aphasia
- D. Dysarthria
- E. Dyslexia

Q8. The major reward centre is located in which part of hypothalamus:

- A. Lateral and ventromedial nu-
- B. periventricular area
- C. Paraventricular nuclei
- D. Perifornical nuclei
- E. Arcuate nuclei

09. The Kluver-Bucy syndrome is characterized by decreased emotional expression, loss of fear, excessive oral behavior and increased sexual activity. These symptoms are produced by bilateral lesion of the:

- A. Hippocampus
- B. Amygdala
- C. Ventral hypothalamus
- D. Corpus callosum
- E. Cingulate gyrus

O10. β - waves of the EEG:

- A. Are observed during relayed wakeful stars
- B. Are faster than a waves but slower the
- C. Disappear wh

D. Are observed di

E. Are observed in a

Q11. Possible exaggerated function of part of the dopamine system will result in:

- A. Mania
- B. Depression
- C, Abheimer's Disease
- D. Schrophrenia
- E. Parkinson's Discase

Q12. A 5-year-old boy brought to hospital with complaints of 3-30 seconds of unconsciousness, during which he stares and has twitch like contractions of head and blinking of eyes. Afterwards he resumes activities no most probable diagnosis is:

- A. Complex partial seizure
- B. Absence epilepsy
- C. Simple partial selzure
- D. Tonic-clonic science
- E. Parkinson's Disease

Q13. In rhodopsin cycle which is the active substance which trigger first step of cascade of stimulation of Rods:

- A. Dissociation of scotopsin and meta rhodopsin
- B. Decomposition of scotopsin
- C. Transformation of 11-cis retinal to all-trans
- D. Transformation of meta rhodopsin to lu-
- E. Transformation of bathorhodopsin to lumirhodopsin

Q14. An increase in refractive power of lens is contributed by contraction of the:

- A. Iris
- B. Ciliary muscle
- C. Suspensory ligament
- D. Extraocular muscles
- E. Pupil

Q15. The stimulation of which type of sensory receptor cause the receptor cell membrane to

- A. Meissners Corpuscle
- B. Rods
- C. Free nerve ending
- D. Touch receptors
- E. Nocireceptors

Q16. Minimum how much increase in action of pressure can cause hos of vision when montain for long period of time:

- A. 5 = 10 mm Hz
- B. 10to 15 nm 11m
- C. 15 to 20 mm Hz
- D. 20 to 25 mm Hz
- E. 25 to 30 mm Hg

Q17.Concave spherical lenses are used for the correction of:

- A. Hyperopia
- B. Myopia.
- C. Emmetropia
- D. Astigmatism
- E. Cataract

Q18. The ability of a person with two eyes far greater ability to judge relative distance when the objects are nearby is known as:

- A. Accomodation
- B. Colour vision
- C. Dark adaptation
- D. Stereopsis
- E. Light adaptation

Q19. When rhodopsin decomposes after exposure to light, it decreases the rod membrane conductance for which ion in uter segment?

- A. Na
- B. K
- C. Ca
- D. Ma E. CI

Q20. A 75-years-old male, presented to eye with complaints of loss of accommodation. On examination his power of accommodation found to be decreased to 0 diopters. What would be the most probable diagnosis?

- A. Myopia
- B. Cataract
- C. Astigmatism
- D. Hyperopia
- E. Presbyopia

Q10.Sense of satiety or decreased thirst results by stimulation of which nuclei:

- A. Paraventricular nuclei
- B. Ventromedial nucleus
- C. Supraoptic nuclei
- D. Posterior Hypothalamus
- E. Anterior ypothalamus

Q11. Which one is function of Limbic system

- A. Cognitive function
- B. Voluntary motor activity
- C. Coordination
- D. Control of body temperature
- E. Motivation, reward, punishment

Q12. Which part of brain is believed to make the persons behavior in response to appropriate for each occasion?

- A. Prefrontal Cortex
- B. Occipital Lobe
- C. Amygdala
- D. Basal ganglia
- E_ Hippocampus

Q13. Which statement about the Kluver bucy syndrome is Incorrect?

- A. Has excessive Curiosity about every thing
- B. Puts everything in mouth
- C. Has excessive sex derive
- D. Is afraid of everything
- E. Not damage of amygdala

Q14. Temperature regulating center is present in

- A. Cerebellum
- B. Thalamus
- C. Pre-optic area
- D. Basal ganglia
- E. Anterior pituitary

Q15. By rehearsal short term memory is converted to long term memory. It involves following phenomenon

- A. Reverberating circuits
- B. Presynaptic facilitation
- C. Codification of new memories into direct association with old memories of same type
- D. Post synaptic inhibition
- E. Presynaptic inhibition

Q16. Which area is needed for initial processing of visual language (reading)?

- A. Pre-motor area.
- n. Brocas area.
- C. Angular gyrus.
- p. Limbic area
- E. Parieto occipital area

Q17. 45 years old male is diagnoved as a case of word blindness or dyslexia. This condition is d to lesion in?

- A. Angular gyrus
- B. Pre frontal area
- C. Broca's area.
- D. Wernick's area
- E. Limbic association area

Q18. Global aphasia is caused by lesion of wharea?

- A. Wide spread damage of wernick's large
- B. Brocas area
- C. Arcuste area
- D. Amgydadoid
- E. Thalamus

Q19.Loss of Broca's area causes

- A. Sensory aphasia
- B. Global aphasia
- C. Motor aphasia
- D. Wernicks aphasia
- E. All of above

Q20. How short term memory is stored

- A. Pre synaptic facilitation
- B. Reverberating circuits
- C. Both A & B
- D. Pre synaptic inhibition
- E. Post synaptic inhibution

MCOS Argum Aging F18-020 Q1 - Which of the following form Q6- The membrane of myelin sheath around axons presynaptic terminal contains large No. of? in CNS? Am: - origodendrocytes Ans: - voltage trated Calcium channels. Q2- which of the following fibers are preganglioned autonomic Q7- Inhibitory post synaptic potential is Fibers? produced due to opening Ans: AB up of ? Q3- An excitatory synapse? Ann:-K" efflux and (1) influ Ans: Signals the influx of Q8 - Correct Statement? sodium ioni into post Am: Alkalotis increases synaptic neuronthe neuronal excitability Q4- Temporal summation Qa - following accordent Aslan occurs when? went to Neurologist who Ans: A neuron fiber fire) did the tuning took test repeatedly at very fast to check the integrity of ratedorsal column, low frequence vibration Belbw 200 eyelen Qs. when student first time per second will be detected b enters in 12th, he feels Am: Meissners corpuscles smell of Formalin but Q10. Patient came in gradually he does not emergency with complaint feel any smell due to of loss of pain and adaptation of receptors. temperature remotions, what is the mechanism on MRI fluid filled cavities were found in of Adaptation? spinal cord, in your opinion Ant:- Progressive inactivation what is this disease called of sodium channel. Ant: Syringomylia

Q18: Amorphosynthesis or Neglect syndrome occurs due 10 damage of ? Am: Jonatosensory Association Area Q19: The parietal pain is better Localized than visceral pain due to? Ans: Direct conduction into local spinal nerve from parietal layers of peritoneum. Q20:- Iggo dome receptors are multiple numbers of merkel's disc connected to a single eong mylenated fiber- It carrier the following sentation? ANT Touch