

Lecture 1

Physiology of Peripheral Nerves

Medical card



- **1**. The rate of conduction of action potentials along a nerve will be increased by:
- a. Hypoxia.
- b. Local anesthetic.
- c. Mechanical pressure on the nerve fiber.
- d. Decreasing the diameter of the nerve
- e. Increased thickness of nerve fiber.

Ans: e

Lecture 1

#### 2. Regarding nerve conduction, which of the following is correct?

- A) Higher velocity in wide diameter than smaller diameter
- B) In current flow, the active transmission occurs from outer activated to inactivated
- C) In current flow, the active transmission occurs from inner activated to inactivated D) More velocity in myelinated nerves

Ans: d

#### 3. True about chronaxie:

A) It is a measure of excitability

- B) It is the minimum voltage required to stimulate a nerve
- C) It is the time required to reach action potential at threshold current
- D) It is independent of rheobase

Ans: a



Lecture 2

Sympathetic Nervous System

Medical card





<ol> <li>Sympathetic stimulation affects heart rate and the contraction of skeletal muscles. Which of the following is correct?</li> <li>A) Does not affect, decreases</li> <li>B) Decreases, decreases</li> </ol>	
C) Decreases, increases	
D) Increases, increases	
E) Increases, decreases	م معر
	Ans: a
2. Stimulation of the greater splanchnic nerve leads to which of the following effects?	
A) Increases gastrointestinal (GIT) motility	
B) Secretion of adrenaline and noradrenaline from the suprarenal medulla	
C) Decreases glucose level	
D) Increases secretion of saliva	
	Ans: b
3. One of the following is correct regarding sympathetic tone:	
A) Occurs as a result of stress	
B) Determines (lowers) heart rate arrest	
C) Controls arterial blood pressure	
D) Happens during sleep and rest	
	Ans: c
4. Generalized sympathetic stimulation causes:	
A) Increase in arterial blood pressure	
B) Increase in GIT motility	
C) Causes submandibular gland secretion	
DJ Causes miosis	Ane: A

#### 5. The parasympathetic ganglia include all of the following EXCEPT:

- A) Ciliary ganglion
- B) Celiac ganglion
- C) Otic ganglion
- D) Sphenopalatine ganglion

Ans: B

Lecture 2



Lecture 3

Paraympathetic Nervous System

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PNS-Physiology Lectur	·e 3
Rouh Final	
1. True about terminal ganglion :	
A. Only sympathetic	
B. only parasympathetic	
C. has long post-ganglionic neuron	
	Answer: B
2. Regulatory center of cardiorespiratory :	
A. pons	
B. thalamus	
C. medulla oblongata	
D. spinal cord	
••••••••••••••••••••••••••••••••••••••	Answer : C
3. Regulatory center for sneezing , coughing , vomiting :	
A medulla oblongata	
B nons	
C thalamus	
D spinal cord	
card	Δnswer · Δ
4. Parasympathetic innervation are :	
A. 1st . 3rd . 6th . 8th cranial & S2 . S3	
B. 10th, 9th, 7th, 3rd cranial & S2, S3, S4	
	Answer : B

#### **PNS-Physiology** Lecture 3 Nabd + Wareed arch 1. The following process is brought about by activation of the parasympathetic nerve fibers? a-Micturition **b-Sweating** c- Ejaculation of semen d- Exophthalmos e-Increased blood pressure Answer: A 2.Parasympathetic stimulation to the lungs causes: a. Vasoconstnction of bronchial vessels. b. Broncho-constriction. c. Widening of air passages. d. Decreases bronchial secretions. e. Decrease Work of breathing Answer: B 3. Parasympathetic stimulation to heart causes: a-Decrease rate of SAN **b-Increase coronary flow** c- Decrease ventricular contractility d-Increase AVN conduction e-Increase Atrial contraction Answer: A 4.A person goes to ophthalmologist. He has a problem of reading books because he is not able to contract his:

a-Iris b-Suspensory ligament c-Pupil d-Ciliary muscles e-Retina

**Answer: D** 

### **PNS-Physiology** Lecture 3 5.Stimulation of vagal nerves causes? a. An increase in heart rate. b. Stimulation of intestinal peristalsis. c. Vasodilatation of salivary glands. d. Contraction of the splenic capsule e. Bronchoconstriction **Answer: E** اسئلة خارحىة 1. The followig structures are supplied by Parasympathetic except : a.constrictor pupillae muscle **b**.Skin c.coronary artery d.salivary gland e.lacrimal glands **Answer: B** 2. All of the following nerves have collateral ganglia except: a.facial nerve b.The glosso-pharyngeal nerve c.The vagus nerve d.pelvic sacral nerve e. (c+d) Answer: **E** "فَاليَومَ أَبكي عَلى ما فاتَني أَسَفًا وَهَل يُفيدُ بُكائي حينَ أَبكيهِ واحَسرَتاهُ لِعُمرٍ ضاعَ أَكثَرُهُ "!وَالوَيلُ إن كانَ باقيهِ كَماضيهِ

فلا تكون أيامكم يا أحبة أعدادًا متشابهات من غير هدف أو أثر



Vision

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### PNS-Physiology Lecture 4

#### عشان هذه المحاضرة شوفوا اسئلة الهستو (2+1) و البيوكم (2+1)

#### 1.Which description is TRUE of Cone cells but not of Rod cells?

- A. Contain flattened vesicles that are independent of plasma membrane
- B. Are highly responsive for low intensity light
- C. Comprise approximately 95% of the retina's photoreceptor cells
- D. Contain the visual pigment rhodopsin
- E. Are the cell type found in the fovea centralis

**Answer:E** 



Hearing



Medical card



#### **ROUH ARCH**

**1-** Regarding Amplification of sound by the middle ear:

A)Occurs because the ligaments connecting the bone usually flexible.

B) Is caused by the fact that the tympanic membrane is larger in areathan the oval window times22.

C)Ossicles as levitator increase the normal sound times17.

D)Ossicles as levitator increase the normal sound.

#### **Answer:C**

Lecture 5

2- Which of the following represents the correct pathway leading to the perception of sound:

A)tympanic membrane,Ossicles,endolymph , perilymph ,haircell. B)tympanic membrane,Osicles,perilymph,endolymph,haircell. C)Osicles ,tympanic membrane ,endolymph,perilymph,haircell. D)osicles ,perilymph,tympanic membrane,endolymph,haircell.

**Answer:B** 

#### WATEEN ARCH

3- Which of the following statement regarding the transmission of auditory information from the ear to cerebral cortex is correct? The majority of neurons from the cochlear nucliei synapse in the contralateral superior olivary nucleolus.

PNS-Physiology Lecture 5	
NABD + WAREED ARCH	
<ul> <li>4- The first structure to vibrate in response to sounds is:</li> <li>a- Auricle</li> <li>b- Malleus</li> <li>C- Organ of Corti</li> <li>d- Tympanic membrane</li> </ul>	
e- Round window	Ans:d
5- The purpose of the middle ear ossicles is to vibrations: a- Lessen the intensity of	
b- Increase the amplitude of	
c- Change the wavelength of the incoming	Ans:b
e- Digarior Corti netps in;	
a- Dalancing	
C- Hearing	
d-Formation of wax	
e-Defensive function	
I car	Ans:c
7- Auditory pathway includes all the followings EXCEPT:	
a- Superior olive	
b- Cochlear nucleus	
c- Primary auditory cortex	
d- Medial geniculate body	
e- Superior colliculus	
A	Ans: e





### Vestibular apparatus



Medical card





e-Hair cells in organ of Corti

Answer:a



Lecture 7

Neurophysiology of smell and taste

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Medical card







- 5. All of the following can Causes anosmia ,except?
  A)Nasal infection
  B)paranasal sinus infection
  C)olfactory grove meningiomas
  D)trauma
- E) Vagus reflex

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Lecture 7



## Lecture 8

Central regulation of viscera

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1- All of the following are associated with hypothalamus EXCEPT ? Habenula

Lecture 8

2- Disease caused by the damage of ventral medial nucleus? Obesity/hyperphagia

