

# PNS MID

Patho

1- About V.B which one is correct Wernick is reversible when treated with thiamine

2- A 35-year-old male developed weakness in his legs over four days. On the fifth day, he lost sensation in his legs and became paralyzed. Upon arrival at the hospital, he was immediately placed on mechanical ventilation due to respiratory failure. What is the most likely underlying cause of his neurological condition? Influenza virus

3- A 28-year-old man committed suicide. His sister died at the age of 30 after a progressive illness characterized by involuntary movements, mood disturbances, and cognitive decline. Family history is positive for similar cases.

Question:

Which of the following neuropathological findings is most characteristic of this condition?

- A. Degeneration of the substantia nigra pars compacta
- B. Demyelination of corticospinal tracts
- C. Degeneration of the caudate nucleus
- D. Loss of Purkinje cells in the cerebellum
- E. Atrophy of the hippocampus

✓ Correct Answer: C. Degeneration of the caudate nucleus

4-

50- Activated after injury for scar and repair, this cell undergoes both hypertrophy and hyperplasia, where the nucleus enlarges and the nucleolus becomes prominent. The cytoplasm expands with bright pink hue extending multiple processes. What is this cell type most likely to be?

- a- Astrocyte
- b- Endothelial cell
- c- Neuron
- d- Microglia
- e- Oligodendroglia

5- In Multiple Sclerosis, CSF typically shows mildly elevated protein, pleocytosis, and: A) Amyloid plaques B) Lewy bodies C) Negri bodies D) Oligoclonal bands Answer: D) Oligoclonal bands

## Embryo

1- Which is one is correct 4th pharyngeal arch / constrictor muscle of pharynx

2- Pierre Robin syndrome all true except

Hypoplasia of mandible

Cleft palate

Tounge falls back ...

Abnormality of ear Ectopic thymus\*\*

3- An external branchial fistula results from which developmental abnormality?

A) Failure of cranial growth of 1st arch

B) Failure of caudal growth of 2nd arch

C) Failure of fusion of maxillary & mandibular processes

D) Persistence of thyroglossal duct

Answer: B) Failure of caudal growth of 2nd arch

1-

**6. All of the following are true about taste buds and taste receptors except:**

- a. Taste receptor cell is an elongated spindle cell that renews every 10 days.
- b. Basal cell renewal.
- c. Microvilli at the basal surface.
- d. Neuroepithelial cell with apical and basal surfaces.
- e. When depolarized, releases neurotransmitter.

Ans: c

**7. All of the following about second messengers in various pathways are true except:**

- a. cAMP is found in smell and natural sugar pathways.
- b. Salty and sour tastes are mediated by amiloride-sensitive Na<sup>+</sup> channels, and umami taste uses a different pathway.
- c. IP3R1 and T2R1 are involved in taste signaling.
- d. Umami is mediated by a G-protein receptor, while T1R is involved in artificial sweetener and bitter taste signaling.
- e. IP3 is a second messenger in taste transduction.

Ans: b

2-

**13) The major time consuming in ADAPTATION**

- A) Bleaching / regeneration of photopigments
- B) Switch-over between rods and cones
- C) modification Pupil size to adjust amount of light reaching the retina

Answer: A

3-

**4. In Rods, the cytoplasmic level of cGMP is high in absence of stimulus:**

- a- Due to dark current
- b- Because the rate of synthesis of cGMP by phosphodiesterase enzyme is high
- c- Due to the influx of Na<sup>+</sup> ions
- d- Because phosphodiesterase enzyme is switched off
- e- Because guanylyl cyclase is inactive

Ans: d

## Micro

1- Causes Hansen disease ... M.Leptrae

2- Prion vaccine given within 0/3/7/14/30

3- C.butulnium Home - canned food

4- Most common mode of transmission of polio virus is Answer : feco oral

5- All of the following are the signs and symptoms of Tetanus except: Skin rash

1-

2. Which of the following best describes the “blind spot” of the eye?
- A) Located 5 degrees lateral to the central point of vision
  - B) The exit point of the optic nerve
  - C) Contains only rods and thus has monochromatic vision
  - D) Contains no blood vessels
  - E) The area where chromatic aberration of the lens is the greatest

2- instead of vagus its shingles

## Q2:Causes of anosmia?

- 1) Nasal infection
- 2) paranasal sinus infection
- 3) olfactory groove meningiomas
- 4) trauma
- 5) Vagus reflex

3-

45. Which statement regarding the transmission of auditory information from the ear to the cerebral cortex is correct?
- A) Inferior colliculus neurons synapse in the cochlear nuclei of the brain stem
  - B) Neurons with cell bodies in the spiral ganglion of Corti synapse in the inferior colliculus
  - C) The majority of neurons from the cochlear nuclei synapse in the contralateral superior olivary nucleus
  - D) There is no crossing over of information between the right and left auditory pathways in the brain stem
  - E) Trapezoid neurons synapse in the cochlear nuclei of the brain stem

50.

C

4-

Which statement best describes the underlying basis of the dark current in the outer segment of the photo-receptors?

- A) Dark current results from the influx of sodium ions via c-AMP–dependent sodium channels
- B) Dark current results from the influx of sodium ions via c-GMP–dependent sodium channels

B

5- Saccule movement is vertical.

6- Parasympathetic >. Bradycardia

7- Receptors > Macula of utricle and crista

8-

Q3:What increases and decreases satiety?

INCREASE :

Increase fat storage

Increase leptin

Increase alpha - msh

Increase insulin level

Increase glucose level

Increase CRH

DECREASE :

Increase orexin

Increase neuropeptide y

Increase aguti-regulating peptide

9- Which of the following from the function of lesser splanchnic Answer: ejaculation of semen

## Medicine & Surgery

1- features of neuropraxia ? Preserved perineum.

2- The most common sign for vestibular disease is ? hearing loss.

## Histo

- 1- The aqueous humor is a clear, watery fluid produced by the non-pigmented epithelium of the ciliary processes in the eye.
- 2- Which of the following is NOT a component of the muscle spindle (i.e., not inside the capsule)?  
A) Intrafusal fibers B) Extrafusal fibers C) Nuclear bag fibers D) Nuclear chain fibers
- 3- Structure organ of corti  
Inner hair cell  
outer hair cell  
Inner phalangeal  
outer phalangeal  
Ganglion cell \*\*\*
- 4- Ciliary process produce aqueous humor
- 5- At the corneo-scleral junction (limbus), which structure stops abruptly?  
A) Descemet's membrane  
B) Bowman's membrane  
C) Bruch's membrane  
D) Basement membrane of conjunctiva  
Answer: B) Bowman's membrane

7. The Mismatched between the following  
A) cranial ganglion / unipolar / sensory impulses  
B) nerve endings / unmyelinated / proprioceptive  
C) markel disc / dermal papillae / proprioceptive  
D) Golgi tendon / muscle tendon / proprioceptive  
E) synaptic / neurotransmitter / motor end plate

Answer: C

## Pharma

1- What do we give a patient who has exophthalmos protrusion due to hyperthyroidism Guanthidine

2- Drug for hypertension crisis? trimethopran

3- Cocaine effects for ...? Block ...? Alpha 1

4- Mechanism of action of the ganglionic stimulators

5- Whats the most ototoxicity ? Topramycin

6- rate limiting step in synthetic NE / Epinephrine enzyme? Tyrosine Hydroxylase

7- All of the following are precautions of local anesthesia except:

avoid vasoconstrictors in certain areas

avoid injections into infected areas

avoid intravascular injections

take high doses for high effect \*\*

8- All of the following are systemic effects of sympathomimetics except:

anxiety

tremors

respiratory depression

hypotension

hypertension \*\*

## Anatomy

- 1- Location of main motor nucleus of facial nerve Answer : lower part of pons
- 2- Which of the following not considered from taste pathway Answer : cribriform ethmoid
- 3- Transcervical nerve from which spinal nerve Answer:c2- c3
- 4- Facial canal in which bone Answer:petrous part of temporal bone
- 5- Nerve of mylohyoid branch of inferior alveolar
- 6- Upper part of superior orbital fissure Trochlear .N
- 7- Corneal reflex Trigeminal.N and facial.N
- 8- superior colliculus reflex? visual body reflex
- 9- False about Artery supply middle ear Caroticotympanic from external
- 10-The framework of the eyelids is formed by a fibrous sheet ? The orbital septum
- 11- the small centered reddish yellow elevation is ? the caruncula lacrimalis
- 12- Where is the lesser wing of sphenoid located? optic canal
- 13- paralysis of the shoulder is caused by ? injury of spinal root nerve of accessory nerve
- 14- Whats the most substantial portion of the suspensory apparatus ? fascial sheath.
- 15- Whats the movement of superior oblique muscle? rotates the eyeball so that cornea looks downward and laterally.
- 16- glossopharyngeal nerve root supplies which muscles? somatic (branchial) motor of the stylopharyngeus driven by the 3<sup>rd</sup> pharyngeal arch.
- 17- The meningeal branch of maxillary nerve enter which foramen ? foramen of spinosum.
- 18- All of the following pass through the upper superior orbital fissure except?  
abducent nerve \*\*  
lacrimal nerve  
frontal nerve  
trochlear nerve