

# QUIZ TIME

oral physiology

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Lec: 6



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## MCQ Questions – Mechanism of Salivary Secretion

1. Which nucleus is responsible for the parasympathetic innervation of the parotid gland?

- A. Superior salivary nucleus
- B. Inferior salivary nucleus
- C. Dorsal motor nucleus
- D. Solitary nucleus

Answer: B. Inferior salivary nucleus

2. The otic ganglion is associated with which cranial nerve?

- A. CN V
- B. CN VII
- C. CN IX
- D. CN X

Answer: C. CN IX

3. Which nerve carries preganglionic parasympathetic fibers to the submandibular ganglion?

- A. Glossopharyngeal nerve
- B. Chorda tympani
- C. Auriculotemporal nerve
- D. Hypoglossal nerve

Answer: B. Chorda tympani

4. The postganglionic fibers from the otic ganglion reach the parotid gland through which nerve?

- A. Lingual nerve
- B. Auriculotemporal nerve
- C. Chorda tympani
- D. Facial nerve

Answer: B. Auriculotemporal nerve

5. Which neurotransmitter is released at parasympathetic endings in salivary glands?

- A. Norepinephrine
- B. Dopamine
- C. Acetylcholine
- D. Serotonin

Answer: C. Acetylcholine

6. Sympathetic stimulation of salivary glands causes:

- A. Copious watery secretion
- B. Increased enzymatic activity
- C. Reduced secretion with mucus
- D. No change in secretion

Answer: C. Reduced secretion with mucus

7. The acinar cells secrete the primary saliva, which is:

- A. Hypertonic
- B. Hypotonic
- C. Isotonic
- D. Neutral

Answer: C. Isotonic

8. Which ions are reabsorbed during ductal modification of saliva?

- A.  $\text{Na}^+$  and  $\text{Cl}^-$
- B.  $\text{K}^+$  and  $\text{HCO}_3^-$
- C.  $\text{Ca}^{2+}$  and  $\text{PO}_4^{3-}$
- D.  $\text{H}^+$  and  $\text{OH}^-$

Answer: A.  $\text{Na}^+$  and  $\text{Cl}^-$

9. The final saliva entering the oral cavity is:

- A. Isotonic
- B. Hypertonic
- C. Hypotonic
- D. Neutral

Answer: C. Hypotonic

10.  $\beta$ -adrenergic receptors in salivary glands respond to which neurotransmitter?

- A. Acetylcholine
- B. Norepinephrine
- C. Dopamine
- D. Serotonin

Answer: B. Norepinephrine

