

L.N. Coakley Science Department

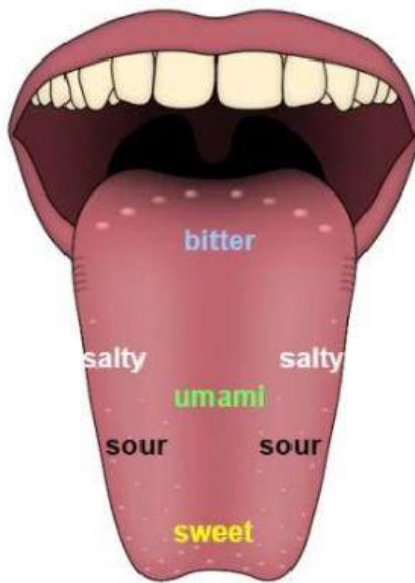
The Senses of Taste and Smell System Unit Quiz

Name: _____

Date: _____

Grade: _____

1. Is this taste map of the tongue correct?



- a) ☐ Yes it is, if we put salt on the tip of the tongue we wouldn't be able to taste it.
- b) ☐ No, it is wrong taste receptors are all over the tongue, so you would be able to sense any of these flavors at any point.
- c) ☐ None of the above.

2. What are the five tastes the tongue can detect?

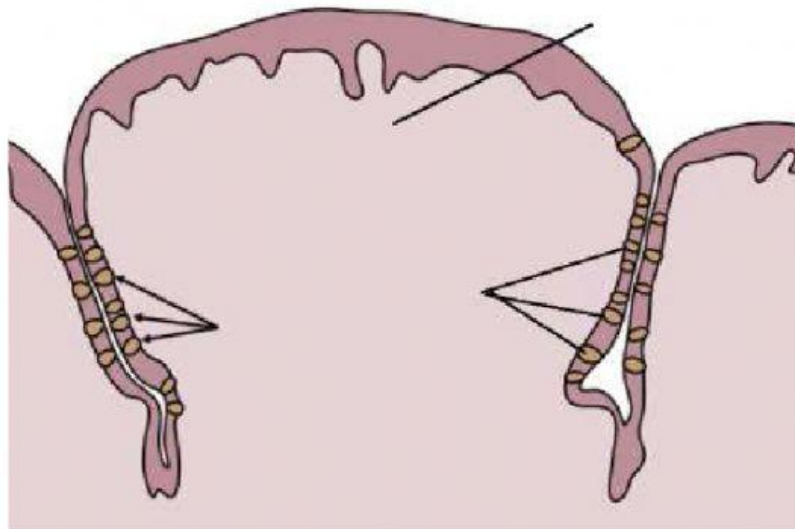
3. What is the name of the thousands of tiny bumps that cover the tongue?

- a) ___ Papillae
- b) ___ Taste buds
- c) ___ Taste cell
- d) ___ Salivary glands

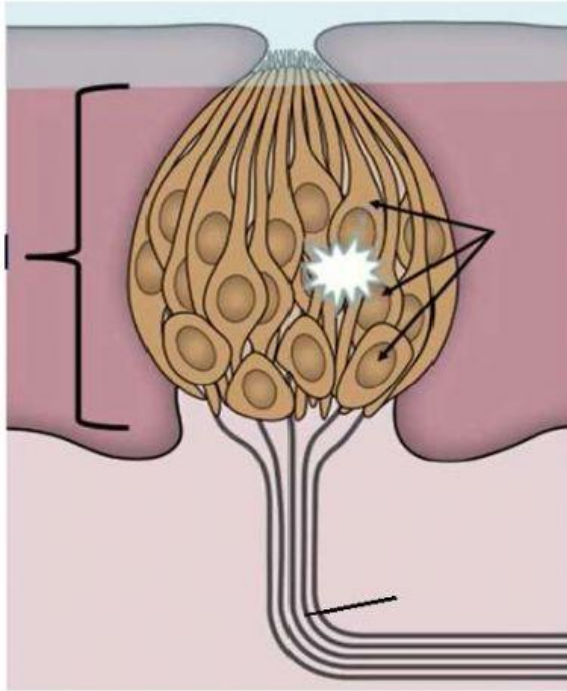
4. What is the name of the structure found in each papillae?

- a) ___ Papillae
- b) ___ Salivary glands
- c) ___ Taste buds
- d) ___ Taste cell

5. Label the following structure of the tongue.



6. The taste buds are made of dozens of _____ who detects the chemicals from the food that we eat.
7. Label the following structure of the tongue.



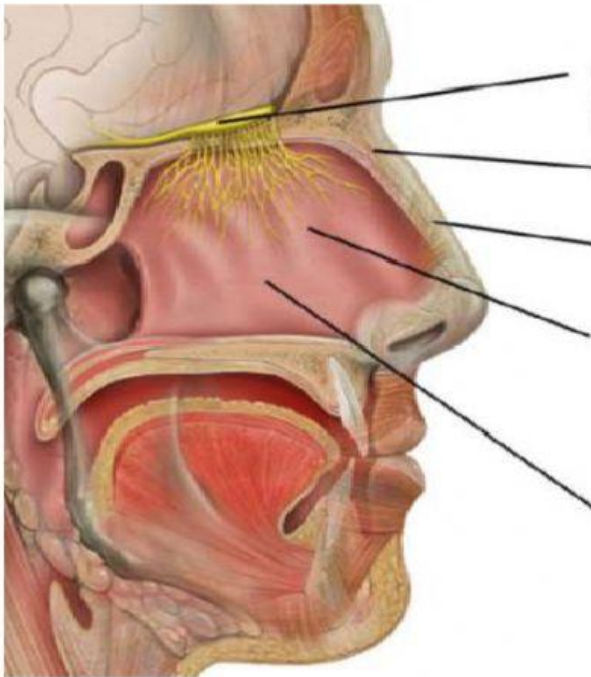
8. How do taste molecules do enters the taste cells?

_____.

9. Which nerves lead from the tongue to the brain to carry the electrical impulses with the information about the taste?

_____.

10. Label the following diagram of the olfactory system.



11. Match the elements in column A with the corresponding description or function in column B.

A

B

Nasal Cavity

Around 6 millions detects airborne chemicals as smells about 350 different receptors between them can didtinguish 10,000 to 100,000 different smells.

Cartilage

Hard bone at top of the nose.

Olfactory Bulb

Long narrow cavity extending from the nostrils, separated by the nasal septum.

Nasal Bone

Soft moveable part of the nose.

Olfactory receptors

Processes information from smell receptors and sends it to the brain.

12. What is the purpose of the nose hair and the mucus membrane?

- a) ☐ Both of them acts as a defense system to protect the body from harmful external agents.
- b) ☐ Allows dust, pollen and other particles to enter in the lungs.
- c) ☐ None of the above.

13. What is the function of the chemoreceptors?

- a) ☐ Trap the scents molecules (chemicals) in the air and create electrical impulses that are send it to the brain to be identify.
- b) ☐ Protect the body from all the harmful particles with in the air from enter the respiratory system.
- c) ☐ None of the above.

14. What is the purpose of:?

a) Nose hairs:

b) Mucus Membrane:

15. Where does the olfactory nerve leads?
