



1 What is the function of the structures found in the nasal cavity? Clean & Moisten Air

2 What kind of muscle is this structure? Sphincter

3 Name this structure. Larynx / voice box

4 What kind of transport allows gas exchange in this structure? Active Transport / Passive Transport **Diffusion Best Answer**

5 Name this structure. Right Bronchus

6 Name this primary muscle of breathing. Diaphragm

7 Why is this a 'decision point'? At this stage material can enter the digestive OR respiratory system

8 What ensures that this structure remains open? Cartilage rings

9 What small structures would be found inside this area of the system? Cilia

10 If a vacuum is formed, what happens to this area? A breath is taken

11 Name this Structure. Alveoli

Part III Long(er) Answer

Follow the movement of a **Fat Molecule**, from the chicken leg on your plate to your gut, with all the structures that contribute to its digestion. (10 Marks)

Any 10 of...

- Bite taken by incisors
- Tongue moves food to teeth/back of throat
- Molars grind food
- Canines tear meat
- Food passes pharynx (epiglottis closed)
- Food enters esophagus moved by peristalsis
- Food (Bolus) enters stomach (through cardiac sphincter)
- HCl and rugae breakdown food
- Food enters duodenum (through pyloric sphincter)
- Bile, formed in Liver, stored in gallbladder
- Bile injected into duodenum to breakdown fat
- Jejunum and ileum absorb fat molecules
- Waste enters large intestine
- Water removed (Vit K produced)
- Rectum pressure sensors indicate feces needs to be removed
- Excretion via anus

TOTAL

/34

2 marks for
functions included
in digestive system
diagram