

2012 Anatomy & Physiology C Division
National Competition-Science Olympiad

1. The alimentary canal includes 8 different parts and 4 accessory organs. Name 5 parts from the alimentary canal and 3 accessory organs.(8 pts.)
2. Which layer of the alimentary canal is composed of visceral peritoneum on the outer covering of the tube. (1 pt.)
3. What is it called when sugar remains undigested, increasing the osmotic pressure of the intestinal contents and drawing water into the intestines? (2 pts.)
4. Match the enzyme to their function: (7pts)

a. Peptidase	1. Begins protein digestion <
b. Amylase	2. Breaks fats into fatty acids and glycerol
c. Nuclease	3. Breaks down proteins into peptides <
d. Lipase	4. Breaks down starch and glycogen into disaccharides
e. Pepsin	5. Breaks down peptides into amino acids <
f. Trypsin, chymotrypsin And carboxypeptidase	6. Breaks down nucleic acids into nucleotides
g. Sucrose, maltase, lactase	7. Breaks down disaccharides into monosaccharides
5. Which two organs does Crohn's disease effect? (2 pts.)
6. The following symptoms indicate what disease: changes in frequency of bowel movements, narrowing of feces, blood in feces, abdominal pain, weight loss, fatigue and unexplained vomiting. (1 pt.) *Typhoid fever #5*
7. The following statement indicates what disease: Parts of the intestinal wall weaken and the inner mucous membrane protrudes through. (1 pt.)
8. Malabsorption of proteins found in grains is called? (1 pt.)
9. What disorder of the renal system is developed 1-3 weeks after beta-hemolytic streptococcus? (1 pt.)

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KJ Lindholm-Leary



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web solution 1 the two half reactions balanced as if in acidic solution $2\text{CN}^- + \text{Au} + \text{CN}^- + 2\text{e}^- + 2\text{H}^+ + \text{O}_2 \rightarrow \text{H}_2\text{O}_2 + 2\text{C} + 2\text{H}_2\text{O}$ make electrons equal convert to basic solution $4\text{CN}^- + 2\text{Au} + 2\text{Au} + \text{CN}^- + 2\text{e}^-$ multiplied by a factor of 2 $2\text{e}^- + 2\text{H}_2\text{O} + \text{O}_2 \rightarrow \text{H}_2\text{O}_2 + 2\text{OH}^-$ the final answer

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