**STA306 Chapter 6 Test: Nutrition and Associated Systems**

 **Name; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Grp:\_\_\_\_\_**

**Part A: Multiple Choice (4 marks each, 48 marks)**

1. What three components of our diet provide us with fuel for energy?
2. Carbohydrates, Fat and Protein
3. Carbohydrates, Fat and Vitamins
4. Carbohydrates, Vitamins and Minerals
5. Fat, Vitamins and Water
6. Which component of our diet builds, maintains and repairs our tissues?
7. Carbohydrates
8. Fat
9. Protein
10. Vitamins and Minerals
11. Where does the chemical digestion of the carbohydrate starch begin?
12. Mouth
13. Stomach
14. Small intestine
15. Large intestine
16. Where does the chemical digestion of protein begin?
17. Mouth
18. Stomach
19. Small intestine
20. Large intestine
21. Which organ of the digestive tract is responsible for the reabsorption of water?
22. Mouth
23. Stomach
24. Small intestine
25. Large intestine
26. During inhalation:
27. the intercostal muscles and diaphragm relax.
28. the air volume in the lungs decreases.
29. the air pressure in the lungs decreases.
30. all of the above occurs.
31. These vessels of the Cardiovascular System carry blood to the heart.
32. Arteries
33. Capillaries
34. Veins
35. Ventricles
36. Which formed element is responsible for carrying oxygen in the blood using hemoglobin?
37. Red blood cells
38. Platelets
39. Plasma
40. White blood cells
41. What blood type would Sarah have if Anti A and Anti Rh sera caused it to clump?
42. A- b) A+ c) B+ d) AB+
43. If Ryan had B- type blood, what blood types could he donate to?
44. B-, O-
45. B-, B+, O-, O+
46. A+, B-, AB-, AB+
47. B-, B+, AB-, AB+
48. If Athena had A+ type blood, what blood types could she receive from?
49. A+, O-
50. A-, A+, O-, O+
51. A+, AB+
52. A-, A+, AB-, AB+
53. Which is the correct order for the production and circulation of urine through the urinary system?
54. Kidney 🡪 urethra🡪bladder 🡪 ureter
55. Bladder 🡪 kidney 🡪 ureter 🡪 urethra
56. Kidney 🡪 bladder 🡪 ureter 🡪 urethra
57. Kidney 🡪 ureter 🡪 bladder 🡪 urethra

**Place Multiple Choice Answers Here:**

1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_ 5. \_\_\_\_\_ 6. \_\_\_\_\_

7. \_\_\_\_\_ 8. \_\_\_\_\_ 9. \_\_\_\_\_ 10. \_\_\_\_\_ 11. \_\_\_\_\_ 12. \_\_\_\_\_

**Part B: Labelling Diagrams (40 marks)**

1. Label the anus, esophagus, gallbladder, gastric glands, intestinal glands, large intestine, larynx, liver, mouth, pancreas, pharynx, salivary glands, stomach, rectum and small intestine in the following diagram of the digestive system. (15 marks)
2. The Respiratory System: 
3. The Cardiovascular System: Include the aorta, left atrium, left ventricle, right atrium, right ventricle, pulmonary artery, pulmonary vein, inferior vena cava and superior vena cava. (9 marks)

**Include an indication of the blood flow through the heart with arrows and whether the blood is rich in O2 (red) or CO2 (blue) (6 marks).**



**Part C: Constructed Responses (12 marks)**

1. What are the final products of digestion for absorption from each below? (3 marks)
2. Carbohydrates \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Protein \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Fat \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Name three substances dissolved in blood plasma: ( 3 marks) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. What is the function of oxygen in our body? (3 marks)

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1. What is the function of the Lymphatic system? Include the function of lymphatic nodes. (3 marks) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Bonus questions (4 bonus marks):**

Spell the device that measures blood pressure. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Give the scientific name for RBCs, WBCs and platelets. \_\_\_\_\_\_­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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