**Study Checklist for Biology Test 8: Anatomy and Physiology – Standard 3, Objective 1**

* Define “structure” and “function”. How are they related?
* What organs, structures and tissues belong in the circulatory (cardiovascular) system? Label and describe their structure and function.
* What organs, structures and tissues belong in the respiratory (pulmonary) system? Label and describe their structure and function.
* What organs, structures and tissues belong in the integumentary system? Label and describe their structure and function.
* What organs, structures and tissues are related to the ovaries in animals? Label and describe their structure and function.
* What organs, structures and tissues belong in plants (leaf, stem, root, flower)? Label and describe their structure and function.
* Diagram and describe the pathway of air through the lungs and into the blood stream.
* Diagram and describe the blood pathway in the heart.
* Define “anatomy”, “physiology”, “structure” and “function.”
* How are organisms ordered?
* Define “homeostasis.”
* Define “vascular.”
* Which structures in plants have the same function as similar structures in animals?
* What energy reaction takes place in all plant and animal cells? How does this reaction receive input and get rid of waste? Which organ systems are involved?
* How do the muscular and respiratory systems work together to maintain homeostasis?
* How do the circulatory and respiratory systems work together to maintain homeostasis?
* How do the integumentary and excretory systems work together to maintain homeostasis?
* Review the organs at [***http://www.bbc.co.uk/science/humanbody***](http://www.bbc.co.uk/science/humanbody). Be able to identify each one.
* How is the corpus luteum formed?
* What happens to the corpus luteum if fertilization takes place? What happens if fertilization does not take place?
* What hormone is produced by the follicles? What is the purpose of that hormone?
* What hormone is produced by the corpus luteum? What is the purpose of that hormone?
* Define “ovulation.”