

1	2	3	4	5	6	7	8

Please Do Not Write in These Spaces

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Score

Biology 2325 – Human Anatomy Sample Exam 3

Name _____
Last
First (Please Print Clearly)

DIRECTIONS: Read each question carefully before answering. Understanding the questions is a part of the examination. Answer all of the questions in the spaces provided on the examination. Print your name in the space provided on the first page of the exam and at the top of each subsequent page. This exam consists of 8 questions on 6 pages. It is your responsibility to see that the examination is complete. Please write in a legible manner and **DO NOT WRITE IN RED INK.**

- (11 points)** Trace a drop of blood on a continuous route from the heart to the gluteal musculature. From the gluteal musculature trace the blood to the lateral side of the sacrum. From the lateral side of the sacrum trace the blood to the superior aspect of the bladder. When passing through the heart simply put the word heart.

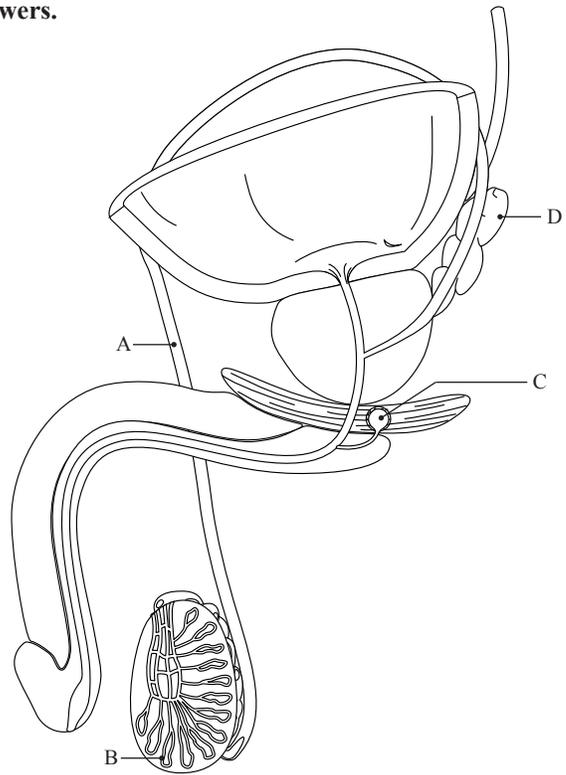
Heart



Superior aspect of the bladder

3. (6 points) Label this illustration by writing the structure names in the blanks to the left of the illustration and answer the two questions below the blanks. **Be as specific as possible with your answers.**

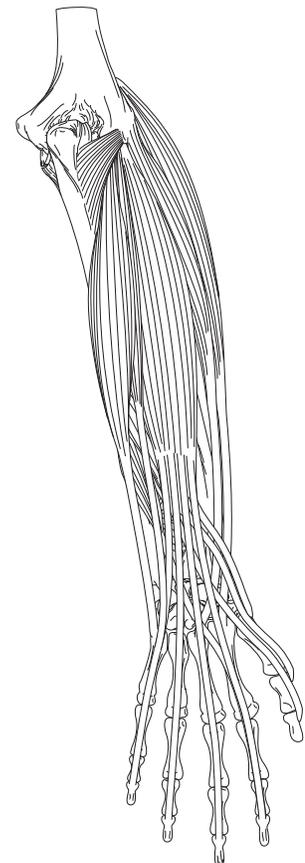
- A. _____
- B. _____
- C. _____
- D. _____



What is the female homologue to structure C?

What does structure D contribute to the ejaculate?

4. (7 points) Label all the muscles in the illustration and answer the questions below.



What is the common action for this group?

What is the common attachment for this group?

Which two muscles in this group are not visible in any way in the illustration?

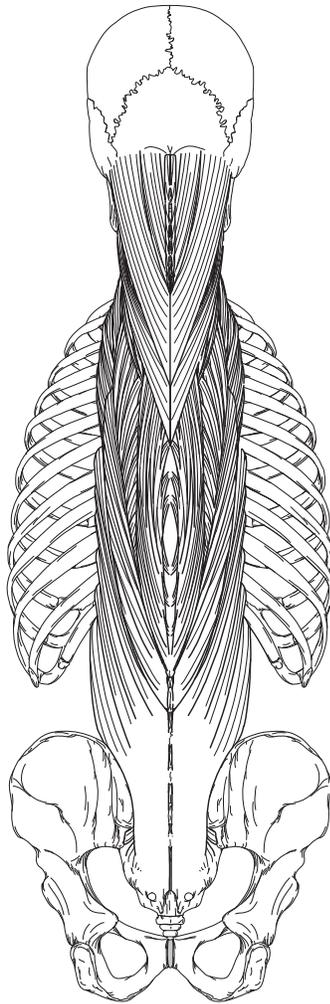
Name _____

5. (15 points) In the space below draw and completely label the brachial plexus. You should label all named nerves, spinal levels, and the roots, trunks, divisions (anterior and posterior), and cords of the plexus. Below your drawing list all the muscles by name that would be completely paralyzed and any joint movements which would be weakened if the lateral cord were cut at its distal most point.

Paralyzed muscles

Weak joint movements

6. (7 points) Label all muscles and color the entire extent of each muscle on the illustration below. **Muscles not colored in their entirety will be marked wrong.**



7. (4 points) List the intrinsic back muscles of the cervical region from superficial to deep. Muscles that are on the same plane should be listed in the same layer. **Note: There are 4 layers of muscle from superficial to deep.**

Layer 1 (superficial)

Layer 2

Layer 3

Layer 4 (deep)

8. (15 points) In the table below list the attachments (i.e. origin and insertion) and **one action** for each muscle as discussed in class. **Attachments that are incomplete or partially incorrect will be marked wrong.** All actions listed must **clearly indicate the specific joint or bone that is moving or they will be marked wrong.** Please list **only one action for each muscle.**

Muscle	Origin (attachment)	Insertion (attachment)	Action
Rhomboideus major			
Teres major			
Supraspinatus			
Levator scapulae			
Biceps brachii			
Teres minor			
Triceps brachii			
Deltoid			
Latissimus dorsi			
Pectoralis minor			