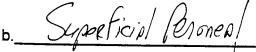
### GROSS ANATOMY EXAMINATION I

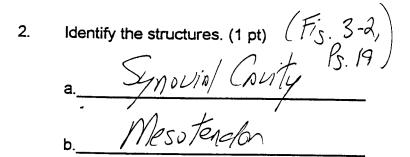
### **AUGUST 28, 1996**

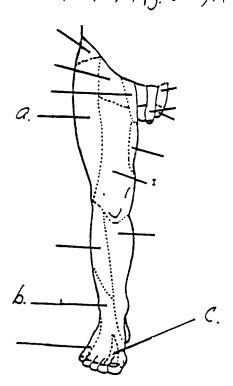
#### Answer in the space provided. (13 pts) PART I.

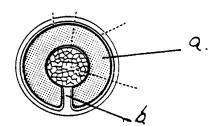
Identify the cutaneous innervation to the areas indicated. (1.5 pts) / 1.

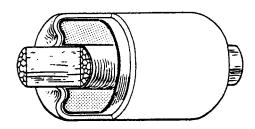




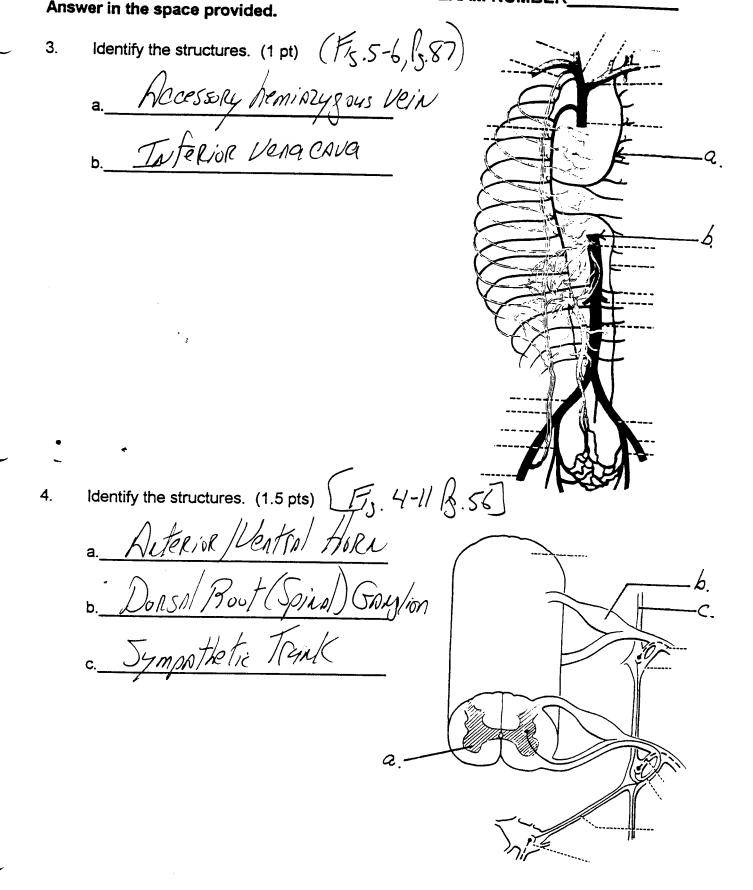


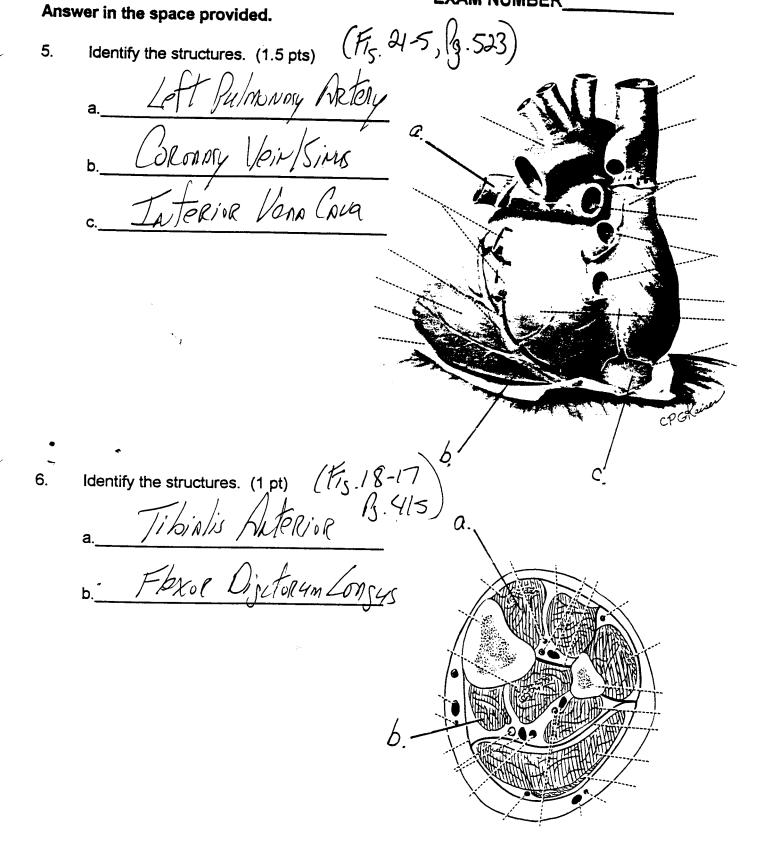






Diagrams of a tendon sheath.





Ans	wer in the space provided.
7.	Identify the structures. (1 pt)
	a. Syppior Peronen/ Betinsculum
	b. Broneus Brevis
	b.
8.	Identify the structures. (1, pt) (Frs. 18-48, 18.440)  a. 1st Donso Literossevys Muscle
	b. Flyor Hallucis Longus (tendon) a.

# Answer in the space provided.

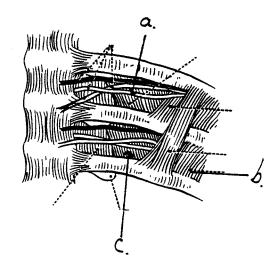
EXAM NUMBER\_\_\_\_

9. Identify the structures. (1.5 pt) (75.19-9, (5.475)

a. Intercostal Nerve

b. Invernost Intercosto/ (Muscle)

c. External Interestal (Musch)
[Internal Interestal Memorane]



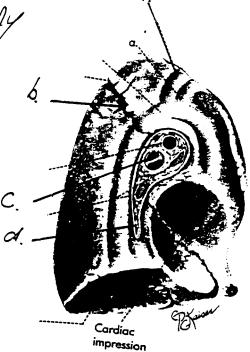
10. Identify the structures. (2 pts)  $(F_5, 20-3, (5.494))$ 

a. Left Susclavian Artery

b. Oblique Fissure

c. (Left) Brownys

d. Premonery Ligarent



Left

EXAM NUMBER	
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# Part II. Indicate your understanding of the following: (19 pts)

a. Extensor hood of the 2nd digit in the foot. (4 pts)

Extensor Disctorum longus.

Extensor Disctorum losevis

Lumbrical

Dasal Interssei (2)

(Extension of I. P. Joint)

(Florior of M.P. Joint)

(Aboliction of olisit)

b. Pump-handle movement in respiration. (4 pts)

Ribs +6
Sternum-Costechonelra/totemachandra/joint
Costouertebral/Costotransverse Joint
Anterica-Posterior Expansion

c. Lumbricals. (4 pts)

Origin-Floren Digetonum Corpus Findon
modio/2345
Insertion-Extensin Hood/Expansion
For M.P.
Extend I.P.

<b>EXAM</b>	NUMBER

d. Septomarginal trabeculae (Moderator band). (3 pts)

Contains Kerwas Tissue-Conduction of the pet Bisht batericle Intervent vicular Septem/Wall - Aut. Popillary Muse

e. Popliteus muscle. (4 pts)

Arisin- Lateral Conclude of ferrer Inserts- Post/modial Tibora Limb ong council-laterally rotates femme Limb off ground-medially rotates trisin Invention-Tibial Vasculature-Replited/Post. Tibial Netaryllein Deep Comportment of Leg (Posteria) Intercopsides (Extensynois) Squartes Lateral Mensicus From Interal Collatoral Isament

# Part III. Circle the correct answer. All, none, or some may apply. (10 pts)

- 1. In regard to the subinguinal region:
  - a. A femoral hernia originates medial to the pubic tubercle.
  - b. The medial femoral circumflex artery passes between the iliopsoas and pectineus muscles in the anterior portion of the thigh.
  - c. The saphenous nerve lies in the femoral triangle.
  - d. Blood drains from deep to superficial veins in the thigh.
- 2. In the leg:
  - a. The great saphenous vein lies deep to the crural fascia.
  - b. The peroneal artery lies in the superficial compartment of the posterior leg.
  - c. The anterior tibial recurrent artery is part of the genicular anastomosis and is a branch of the posterior tibial artery
  - The line of gravity passes in front of the knee.
- 3. In the foot:
  - a. The medial longitundinal arch extends from the calcaneus to the bases of the metatarsals.
  - b. The transverse arch lies at the level of the distal row of tarsals and the bases of the metatarsals.
    - c. The extensor digitorum brevis muscle does not insert into the dorsum of the 5th phalanx.
    - d. The lateral plantar nerve is often said to be "more muscular, and less cutaneous in innervation" than the medial plantar nerve.

EXAM NUMBER\_\_\_\_\_

4.	With respect to the joints of the lower	extremity:
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- (a.) Characteristic clinical features following fractures of the neck of the femurinclude lateral rotation and shortening of the injured lower limb.
  - b. The anterior cruciate ligament is often said to be "intrasynovial and extracapsular".
- c. The medial meniscus is "C-shaped" and attaches to the tibial collateral ligament.
- d. The anterior cruciate ligament arises from the anterior portion of the medial condylar area of the femur.

#### 5. In the thorax:

- a The internal thoracic artery is derived from the subclavian artery.
- b. There are 11 posterior intercostal veins and one subcostal vein.
  - c. The lower two-thirds of the esophagus is innervated by the vagus nerve.
  - \* d. White rami communicantes are present at all levels of the spinal cord.

EXAM	NUMBER	{

## Part IV. Answer in the space provided. (58 pts)

1. A patient comes to your office with an unusual gait and you surmise problems with the gluteal region. Review the anatomy of this region, and include a discussion of the muscles, nerves, vasculature, ligaments, movements and limitations. If upon further examination you suspect injury to the right superior gluteal nerve, how did you arrive at this diagnosis and how will this influence locomotion? (14 pts)

EXAM	NUMBER	₹

2. Cancer of the breast is responsible for the deaths of over 40,000 women in the U.S. every year; in many cases the tumor cells have spread (metastasis) to other locations by way of the lymphatic system. Indicate your understanding of the lymphatic drainage of the breast. (6 pts)

EXAM	NUMBER	₹

3. During your rotation in the emergency room, a patient presents with problems in the popliteal fossa. Discuss the anatomy of the popliteal fossa, and include an account of the boundaries, vascular supply, innervation, ligaments, bones, contents, and muscles. (12 pts)

EXAM	NUMBER	₹

4. In your role as a family practioner, a patient comes to your office with a problem you suspect involves an infection of the left middle mediastinal wall. Pericardiocentesis reveals an infection in the pericardial cavity, and a pleural tap indicates infectious products in the pleural cavity. Review the structure and contents of the walls composing the left middle mediastinum, and relate this knowledge to the clinical findings. (7 pts)

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5. The medial aspect of the ankle is an extraordinarily important area in terms of structures that enter and exit the foot, and may be a source of clinical problems. Summarize the anatomical features of this region, and include discussion of the structures, bones, vascular supply, ligaments, and movements. (11 pts)

EXAM NUMBER\_\_\_\_

6. A tumor along the thoracic region of the vertebral column may increase to such an extent that it interferes with the function of structures in the posterior mediastinum. Discuss the boundaries and content of the posterior mediastinum, and assess the possible clinical symptoms the patient may display. (8 pts)