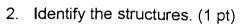
PART III. Identify the structures. (6 pts)

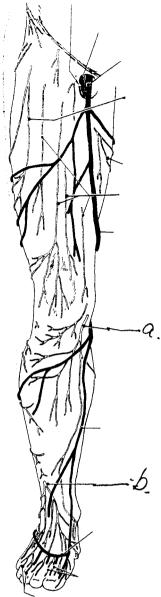
1. Identify the nerves. (1 pt)

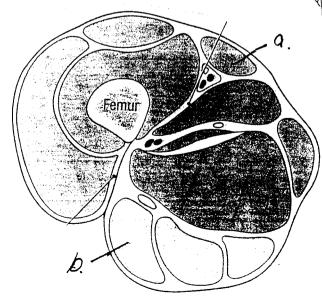
a. Saphenous Nerve

b. Superficial Peroneal (Fibular) New e



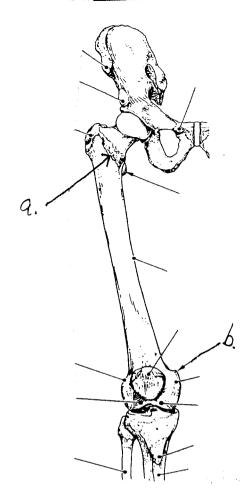
a. SARTORIUS b. Biceps Femoris



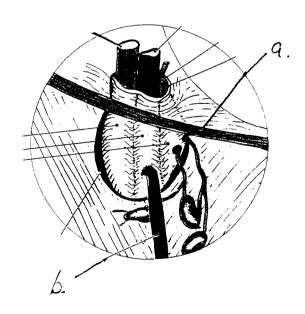


EXAM	NUMBER	
	NUMBER	

Actainton Tubercle



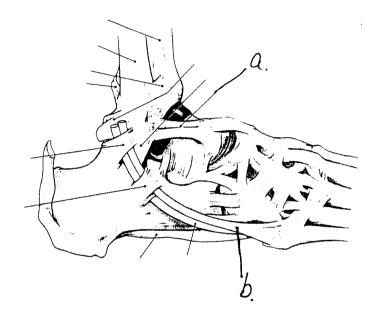
Identify the structures. (1,pt) 4.

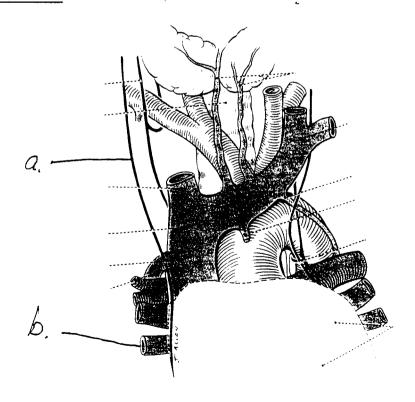


5. Identify the structures. (1 pt) 1 1 Autoris Browns

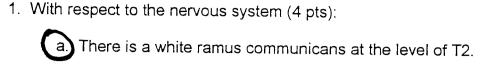
a. Duterior Talotianor Ligament

b. Peroneys (Fibularis) Browns





Part IV. Circle the correct answer. All, none, or some may apply. (36 pts)



- b. The visceral afferents of the greater splanchnic nerve consist of pre- and post-ganglionic neurons.
- C. The motor nerves to the visceral layer of serous pericardium are from the autonomic nervous system.
- d. The sensory nerves of the peripheral diaphragm are from the intercostal nerves.
- e. The intrinsic (terminal/intrinsic) ganglia lie on or within the organ innervated.
- f. The lesser splanchnic nerve contains pre-ganglionic neurons of the sympathetic nervous system.
 - g. The sympathetic division of the autonomic nervous system constricts the coronary arteries during periods of "flight or fright".
- h. The costal parietal layer of the pleura has innervation from the intercostal nerves.
- 2. With regard to the posterior mediastinum (2 pts):
 - a. The right anterior intercostal artery for intercostal space 8 is derived from the musculophrenic artery.
 - b. The left posterior intercostal artery for intercostal space 1 is derived from costocervical branch of the subclavian artery.
 - c. The thoracic duct lies between the azygous vein and thoracic aorta, and is anterior to the esophagus.
 - d. The greater splanchnic nerve lies medial to the lesser splanchnic nerve.
- 3. With respect to the subinguinal region and thigh (4 pts):
 - a. The femoral ring is the opening of the femoral canal.
 - b. The superior cornu is derived from the cribriform fascia.
 - c. The lateral femoral circumflex artery is derived from either the femoral or deep femoral artery, and courses between the iliopsoas and pectineus muscles.
 - d. The first perforating artery is derived from the deep femoral artery and contributes to the cruciate anastomosis.

- e. The superifical external pudendal artery arises from the femoral artery and emerges through the saphenous opening.
- f. Femoral hernias are located inferior to the inguinal ligament.
 - g. The saphenous nerve, a branch of the obturator nerve, enters the adductor canal but does not exit through the adductor hiatus.
- (h.) The floor of the femoral triangle is formed, in part, by the iliopsoas and pectineus muscles.
- 4. In the gluteal region (6 pts):
 - (a.) The piriformis courses through the greater sciatic foramen.
 - b. The superior gemellus lies anterior to the posterior femoral cutaneous nerve.
 - c. The gluteus medius is a medial rotator of the thigh.
 - d. The internal pudendal vein courses through the lesser sciatic foramen.
 - e. The gluteus maximus muscle is extremely important in walking, and paralysis of this muscle will not permit ambulation (i.e., walking).
 - f. Gluteal injections in the lower medial quadrant could damage the superior gluteal nerve.
 - g. A spinal tap (lumbar puncture) should be performed at spinal cord levels T12-L1.
 - h. A patient with a lesion (damage) to the left superior gluteal nerve will experience pelvic sag (tilt) when the right lower extremity is off the ground.
 - i. The femoral nerve and obturator nerve are derived from L4 through S3.
 - j. The obturator internus, but not the obturator externus, is a lateral rotator of the thigh.
 - k. The inferior gemellus courses through the greater sciatic foramen to unite with the tendon of the obturator internus.
 - I. The gluteus medius, gluteus minimus, and tensor fascia lata muscles are innervated by the superior gluteal nerve.
- 5. In regard to the thigh/popliteal fossa (3 pts):
 - a. A characteristic of a hamstring muscle is an origin from the ischial tuberosity.
 - b. The short head of the biceps femoris is innervated by the common peroneal division of the sciatic nerve.

- c. A landmark for the superior lateral and medial genicular arteries is that they are located superior to the popliteus soleus muscle.
 - d. The popliteal artery lies deeper than the popliteal vein or tibial nerve in the popliteal fossa, and is endangered by fractures of the supracondylar region of the femur.
 - (e.) The circumflex fibular artery contributes to the genicular anastomosis.
 - f. The lateral sural cutaneous nerve is a branch of the tibial nerve.
- 6. With respect to the foot/arches/gait (6 pts):
 - a. The flexor digitorum brevis is innervated by the medial plantar nerve.
 - b. Digit 2 is adducted by the plantar adductor interossei.
 - c. Sesamoid bones are found in the heads of the flexor hallucis brevis.
 - d. The center of gravity passes in front of the ankle joint.
 - e. There are 3 extensor digitorum brevis muscles, but 4 flexor digitorum brevis muscles.
 - f. The arcuate artery lies deep to the extensor hallucis brevis muscle.
 - g. The plantar aponeurosis is a specialization of the tela subcutanea.
 - h. The lateral plantar artery lies superficial to the quadratus plantae muscle.
 - i. The lumbricals flex the metatarsophalangeal joints and extend the interphalangeal joints.
 - j. The medial plantar nerve lies lateral to the abductor digiti minimi muscle.
 - k. Push-off during the gait cycle involves the flexor hallucis longus.
 - I. The adductor digiti minimi serves as the adductor for the 5th digit.
- 7. In the thorax (5 pts):
 - a. The esophagus is narrowed where it is in contact with the arch of the aorta.
 - b. The right recurrent laryngeal nerve courses around the right subclavian artery.
 - C. The right right pulmonary artery and the left bronchus are inferior to the arch of the aorta.

- d. The angle of Louis (sternal angle) is at the level of T4/T5 invertebral disc, and is at the site of attachement of the second costal cartilage.
- e. The subcostal muscles lie deep to the intercostal nerves.
- f. The pericardiacophrenic artery is derived from the internal thoracic artery.
 - g. The arch of the aorta is located in the middle mediastinum.
- h. The sympathetic trunks course through the posterior mediastinum.
- i. The phrenic nerves course through the superior mediastinum.
- j. The lower border of the parietal pleura in the mid-axillary line is at the level of the 10th rib.
- 8. With respect to the lungs and ventilation (3 pts):
 - a. The left pulmonary artery is shorter than the right pulmonary artery.
 - b. A bronchopulmonary segment consists of a 3rd order bronchus, lung tissue, and the pulmonary artery.
 - c. The arterial mesocardia unites the pulmonary veins and the aorta.
 - d. The eparterial bronchus is located in the right lung, and is charaterized by a lack of cartilage.
 - e. Expiration of the thoracic cavity/lungs is result of a contraction of the diaphragm.
 - f. Fat is often stored between lung tissue and the visceral pleura.
- 9. In the heart (3 pts):
 - a. The SA node is located in the endocardium at the cephalic end of the sulcus terminalis.
 - b. The marginal artery is a branch of the nodal artery.
 - c. Systole refers to contraction of the heart.
 - d. The sternopercardiacal ligaments stabilize the pericardium to the central tendon.
 - e. The chordae tendinae function in closure of the semilunar valves.
 - f. The moderator band is composed of pectinate muscles.