Weller Shee EXAM NUMBER

a.

STRUCTURAL BASIS OF MEDICAL PRACTICE **EXAMINATION 3**

September 23, 2004

PART I. Answer in the space provided. (8 pts)

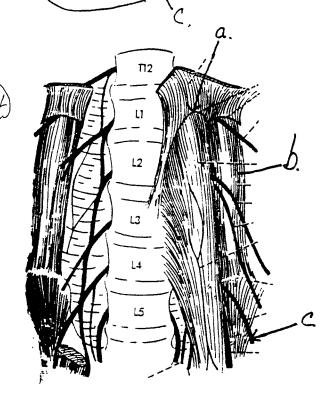
Identify the structures. (1.5 ots) 1.

· Pepper Hopotic Artory

6. Suporior Naterior Prince Vicadesdonal Atey c. Suporior Obsentace lein

Identify the structures. (1.5 pts) Modified 2.

LoKoral temoral Cutoreous nerve



3. Identify the structures. (1.5 pts)

a. Avocacycoal raphe
Edno Loccypeus Muscle
Die Formis rausche

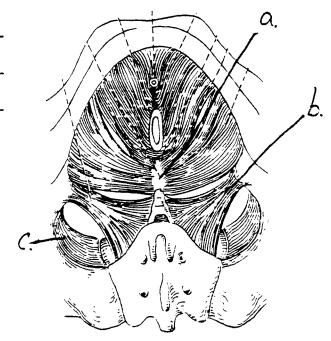


FIGURE 27-5. The pelvic diaphragm of the male from below.

4. Identify the structures. (1.5 pts)

a. Internal iline prtery

b. Uprivo/ ARTOY

c. Internal problems petory

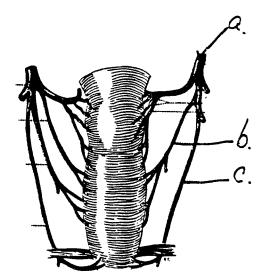


FIGURE 27-44. Arteries to the vagina.

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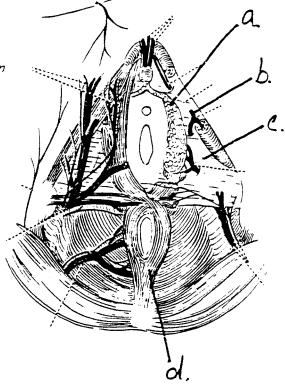
5. Identify the structures. (2 pts)

a lestibela helb

b. Deep Artery Electoris

c. Interior foscio & U.S. Niophram

d. Esternal Aunt sphieter



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Part II. Circle the correct answer. All, none, or some may apply. (18 pts)

. In regard to the nervous system of the abdomen, pelvis, and perineum:
(a.) Transection of the spinal cord at S2-4 allows for an "autonomous (neurogenic)" bladder.
b. The ischiocavemosus muscle is skeletal and innervated by the somatic nervous system.
 The puborectalis muscle is innervated by the pelvic splanchnic nerves and sympathetic fibers from the lumbar splanchnics.
d. The sphincter urethra raises the pelvic diaphragm to close off the urethra at the uvula.
e.) Pelvic splanchnic nerves stimulate peristaltic movement in the descending colon.
f. The external anal sphincter muscle must be stimulated to contract for defecation.
g. The "nervi erigentes" refers to somatic afferent fibers traveling in the pudendal nerve.
h. The sympathetic trunks converge on the anterior surface of the coccyx in the ganglion impar.
2. With regard to the kidneys and suprarenals:
(a.) The pararenal fat is derived from the extraperitoneal connective tissue.
b. The minor calyx drains directly into the renal pelvis.
c. The renal arteries are derived from the aorta superior to the testicular arteries.
d. The inferior suprarenal artery is derived from the renal artery.
e. The renal veins are located anterior to the renal arteries at the hilum of the kidney.
f. The sympathetic nerve innervation of the suprarenal gland is the greater splanchnic nerve.

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3.	With	respect	to	the	abo	lom	en:
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- a. At week 10, the stomach undergoes a 270 degree clockwise rotation.
- b. Meckel's diverticulum is located in the jejunum.
- c. Vasa recta of the jejunum and ileum are derived from the marginal artery.
- (d.) The splenic artery courses in part through the lienorenal ligament.
- e. The sigmoidal arteries are located in the sigmoid mesocolon, a derivative of the dorsal mesentery.
- f. According to internal morphology (e.g., vasculature), the quadrate lobe is part of the left lobe of the liver.
- g. The hepatorenal recess is part of the greater sac.
 - h. The gastroduodenal ligament is derived from the ventral mesentery.
- (j.) The left medial umbilical ligament represents the left umbilical artery in the fetus.
- (k.) The fundus of the stomach is vascularized by the short gastric arteries.
- (I.) In portal hypertension, blood flow from the superior rectal vein to the middle and inferior rectal veins may occur, resulting in hemorrhoids.
- (m.) Pain in the appendix may be referred to the umbilical region by way of T10.

4. In regard to the pelvis and perineum:

- a. Hemorrhoids above the pectinate line are painful because they involve somatic pain fibers.
- b. The arcus tendineus is formed by a condensation of the visceral pelvic fascia.
- (c.) The deep transverse perineal muscle is situated within the urogenital diaphragm.
- (d.) The coccygeus (ischiococcygeus) muscle is part of the pelvic diaphragm.
- e. The suspensory ligament of the penis is derived from Scarpa's fascia.
- f. The round ligament (ligament teres) of the uterus is derived from the gubernaculum.
 - g. The middle one-third of the rectum has peritoneum on the anterior and lateral surfaces.

- h. The perineal branch of the pudendal nerve is located in the deep pouch and forms the anterior scrotal nerves.
- (i.) The mesosalpinx is part of the broad ligament.
- (j.) The uterus is normally in an anteflexed and anteverted position.