STRUCTURAL BASIS OF MEDICAL PRACTICE

EXAMINATION II

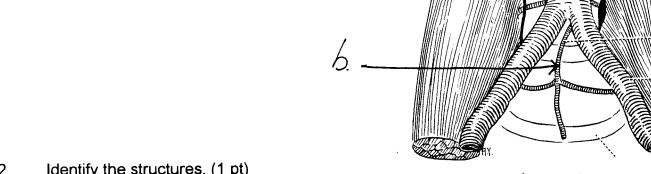
September 24, 1999

Answer in the space provided. (10.5 pts) PART I.

Identify the structures. (1 pt) 1.

a. Middle Suprocent Actor (Abetic Suprocent)

b. Middle Socral note.



Identify the structures. (1 pt) 2.

HNOCOCCYCED/ PAPAO

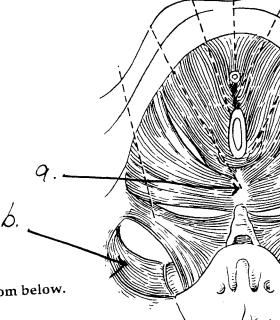


FIGURE 27-5. The pelvic diaphragm of the male from below.

Page 1

3. Identify the structures. (1.5 pts)

a. Median Impulsed his most fold

b. Median Insujual fossa

c. Medial Insujual fossa

BLADDER

FIGURE 23-26.

View of the posterior surface of the lower part of the anterior abdominal wall, showing the structures that produce the folds and fossae related to the bladder and inguinal region.

4. Identify the structures. (1 pt)

a. Transvoke perived / is another

b. Extrust And sphiretor

9.

FIGURE 28-9.
The urogenital diaphragm of the female, from below.

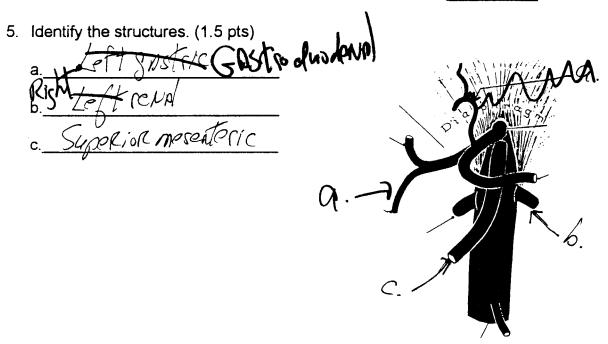


Figure 2.42. A, Branches of the abdominal aorta.

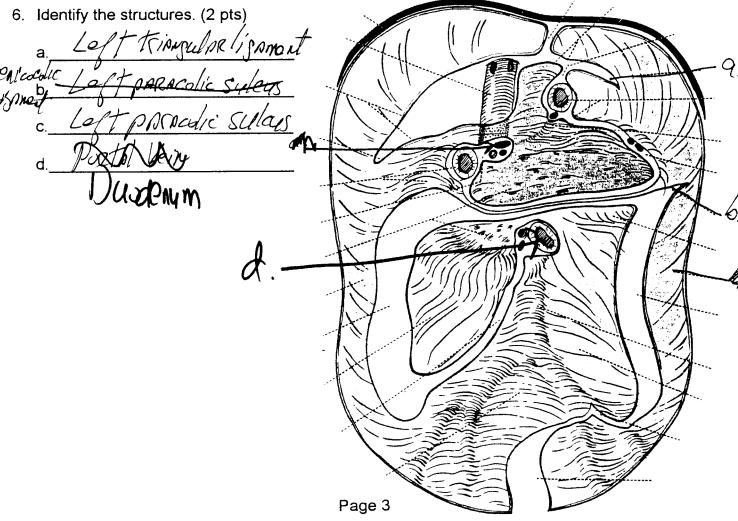
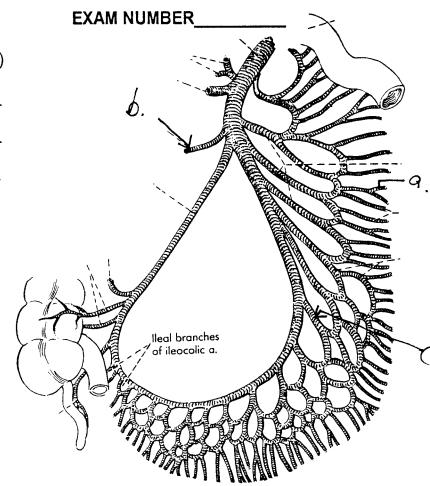


FIGURE 23-20.

7. Identify the structures. (1.5 pts)

b. Right colic

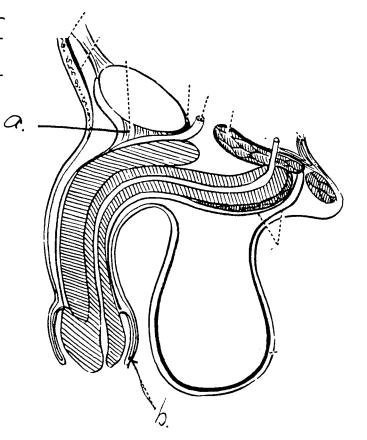
c. Fatistian



8. Identify the structures. (1 pt)

a. Suspensory / soment

b. Prepuce



Page 4

Part II. Circle the one best answer. (2 pts)

1.	The human mesonephros, a transitory functional kidney, has largely degenerated by the week.
	a. fifth
	b. sixth
	c. seventh
	d. eighth
	e. ninth
2.	A bicornuate uterus was diagnosed in a 20-year old patient who had been refereed to a gynecologist on account of several miscarriages. This uterine anomaly results from
	a. failure of fusion of the mesonephric ducts
	b. failure of the sinovaginal bulbs to fuse
	c. failure of fusion of the paramesonephric ducts
	d. absence of the urogenital sinus
	e. none of the above
3.	The rostral and cadual neuropores usually close during the week.
	a. third
	<u>b</u> . fourth
	c. fifth
	d. sixth
	e. seventh

- 4. At birth, the caudal end of the spinal cord lies at the level of the _____ vertebra.
 - a. third sacral
 - b. first sacral
 - c. third lumbar
 - d. first lumbar
 - e. twelfth thoracic

EXAM NUMBER	_
-------------	---

Part III. Circle the correct answer. All, none, or some may apply. (33.5 pts)

- With regard to hernias:
- The neck of a direct inguinal hernia is located superior and medial to the pubic
 - b. The neck of a indirect inguinal hernia occurs inferior and lateral to the pubic
 - c. Abdominal contents of a descended direct inguinal hernia are contained in the processus vaginalis.
 - d. Direct inguinal hernias occur medial to the conjoint tendon.
 - e. Indirect inguinal hernias occur in the lateral inguinal fossa.
 - 2. With respect to the liver and gall bladder:
 - a. The caudate lobe is located between the ligamentum venosum and the gall
 - The ductus venosus in the fetus shunts blood from the left branch of the portal vein to the left hepatic vein.
 - c. The fundus of the gall bladder contains the spiral fold.
 - d. The gall bladder is innervated by postganglionic sympathetic fibers from the
 - n the lesser omentum the common hepatic artery lies to the left of the common bile duct and anterior to the portal vein.
 - 3. The duodenum:
- a. Has plicae circulares (circular folds) in all 4 parts (superior, descending,
 - b. The superior (first) part of the duodenum is the inferior border of the epiploic
 - c. The minor duodenal papilla is located superior to the greater duodenal papilla in the second (descending) part of the duodenum.

	EXAM NUMBER
d.	The suspensory ligament (of Trietz) stabilizes the duodenojejunal flexure and is derived in part from connective tissue arising from the right crus of the diaphragm.
e.)I	Distention at the origin of the superior mesenteric artery may compress the third (horizontal) part of the duodenum.
4. With re	spect to the pancreas:
(a.)	The dorsal pancreatic artery is situated medial to the great pancreatic artery.
b.	The tail of the pancreas enters the gastrolienal ligament.
(c.)	The root of the transverse mesocolon attaches across the head of the pancreas.
<u>a</u>	The pancreas develops from the union of a dorsal and a ventral primordium, and the ventral pancreatic duct forms the terminal portion of the chief pancreatic duct.
е.	The common bile duct descends posterior to the tail of the pancreas.
5. In rega	rd to fascia:
a. `	The parietal pelvic fascia is a condensation of the extraperitoneal layer from the abdomen.
(b.)	Scarpa's fascia attaches to the posterior border of the urogenital diaphragm.
) c. 1	Extravasation of urine may enter dilate the space between the tunica albuginea and Colle's fascia.
d .)	The puboprostatic ligament is a condensation of visceral pelvic fascia.
e.	The superior fascia of the pelvic diaphragm is formed by the parietal peritoneum.
6. With re	egard to the nervous system:
a.	The nervi erigentes represents parasympathetic nerves from S2-4.
(b.)	The helicine arteries are constricted by the sympathetic nerves.
C. 1	Sacral sympathetic ganglia contain both white and gray rami communicans.

e. The sacral parasympathetic nerves synapse in the inferior mesenteric ganglia.

d. Stimulation of the parasympathetic nerves to the pelvic diaphragm relax these

muscles.

		EXAM NOMBER
7.	With r	regard to the nervous system:
	a.	The sympathetic innervation to the testes is by way of the lumbar splanchnics.
	b.	Sacral splanchnic nerves originate from S2-4.
	C.	Transection above S2-4 results in a automatic "cord" bladder.
	d.	Peristaltic movement of the sigmoid colon is stimulated by the pelvic somatic efferents.
	e.	Referred pain is a feature only of the autonomic nervous system.
8.	With r	respect to the diaphragm:
	(a.	The right and left crus unite to form the median arcuate ligament.
	b.	The right crus forms the esophageal hiatus.
	C.	The right crus forms the inferior vena cava hiatus.
	d.	The esophagus passes through the diaphragm at the level of T12.
	e.	The trigone of the diaphragm, often referred to as the lumbocostal trigone, is located inferior to the lateral arcuate ligament (lumbocostal arch).
9.	With r	egard to the kidneys and suprarenal (adrenal) glands:
	a.	The renal fascia that is a specialization of the transversalis fascia.
	(b.	The kidneys have the quadratus lumborum as a posterior boundary.
	C.	The renal columns taper to form the renal papillae.
	d.	The left suprarenal vein drains into the renal vein.
	_)(e.	pການ ກ່ານໄອງ In general, the kidneys extend from vertebral levels T12 to L3.
10	With	respect to the development of the gastrointestinal tract:

a. The phrenicocolic ligament is a derivative of the ventral mesentery.

b.) The superior mesenteric artery can be considered an axis of rotation of the gut.

c. The gastrointestinal tract herniates into the umbilicus on week 5 and undergoes a 90 degree clockwise rotation.

a.	The right triangular ligament is a derivative of the dorsal mesentery.
e.	Meckel's diverticulum represents the remains of the vitelline artery.
f.	The anal membrane usually ruptures at the end of the seventh week.
With	respect to the pelvis:
(a.	The pelvic brim extends from sacral prominence to the pubic symphysis.
b.	The pelvic brim corresponds to the pelvic inlet.
> c.	The correct orientation of the pelvie indicates that the posterior superior iliac spine and the pubic tubercles are in the same vertical plane.
(d.	The pubic arch (subpubic angle) is wider in the female than male.
e.	The Cardinal ligaments are located in the false (greater) pelvis.
In th	ne abdominal cavity:
(a.	The posterior boundary of the epiploic foramen of Winslow is the inferior vena cava.
(b.	The portal vein courses through the hepatoduodenal ligament (lesser omentum).
(c.	The proper hepatic artery courses through the hepatoduodenal ligament (lesser omentum).
d.	The short gastric arteries are located in the gastrolienal ligament.
е.	The hepatorenal recess is in the lesser sac (omental bursa).
(f.	The sympathetic trunk passes deep to the medial lumbocostal arch (arcuate ligament).
With	respect to the jejunum and ileum:
(a.	The ileum is longer than the jejunum.
(b.	The arcades of the ileum are more complex than that in the jejunum.
C.	The "windows" between the blood vessels in the ileum are more translucent (clearer) than in the jejunum.
(d.	ymphoid follicles termed Peyer's patches are formed in the submucosa of the

11.

11.

12.

- e. The jejunum and ileum do not have tenia coli or haustra, but do have appendices epiploicae.
- 13. With respect to the pelvic cavity:
 - a. The levator ani includes the coçcygeus (ischiococcygeus) muscle.
 - b.) The internal pudendal artery lies superior to the iliococcygeus muscle.
 - c. The superior gluteal artery commonly passes between the lumbosacral trunk and the first sacral nerve.
 - d. The fascia of Denonvillier is derived from the transversalis fascia.
 - e. The levator ani forms a major part of the urogenital diaphragm.
 - f. The lateral sacral arteries are branches of the anterior division of the internal iliac artery.