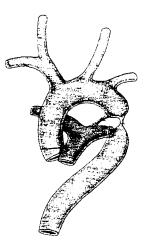
STRUCTURAL BASIS OF MEDICAL PRACTICE

EXAMINATION 9B

September 21, 2006

Circle the correct answer. (22 points)

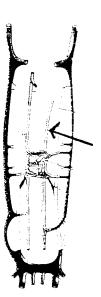
- 1. The picture at the right is an image of:
 - a) Defective right subclavian artery
 - b) Preductal coarctation of the aorta
 - c) Postductal coarctation of the aorta
 - d) Persistent ductus arteriosus
 - e) Double aortic arch



- 2. The embryonic origin of the ligamentum arteriosum is:
 - a) Second aortic arch
 - b) Third aortic arch
 - c) Fourth aortic arch
 - d) Fifth aortic arch
 - e) Sixth aortic arch
- 3. Regarding the circulatory system, which of these events does not occur at birth or shortly thereafter?
 - a) Foramen ovale closes
 - b) Pressure in right atrium decreases
 - c) Umbilical arteries dilate
 - d) Pressure increases in left atrium
 - e) Interarterial septum seals
- 4. Embryonic arch arteries give origin to all but:
 - a) Arch of the aorta
 - b) Common carotids
 - c) Descending aorta
 - d) Maxillary arteries
 - e) Pulmonary arteries

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- 5. Which pair of embryonic and adult structures is **incorrect**?
 - a) Umbilical vein ligamentum teres hepatis
 - b) Umbilical artery medial umbilical ligament
 - c) Ductus venosus ligamentum venosum
 - d) Ductus arteriosus ligamentum arteriosum
 - e) Brachiocephalic vein aortic sac
- 6. Which pair of embryonic and adult structures is **incorrect**?
 - a) Right vitelline vein inferior vena cava
 - b) Right posterior cardinal vein common iliac vein
 - c) Left vitelline vein liver sinusoids
 - d) Left posterior cardinal vein superior vena cava
 - e) Left sinus horn coronary sinus
- 7. Identify the structure indicated by the arrow in the picture:
 - a) Left posterior cardinal vein
 - b) Left common cardinal vein
 - c) Left supracardinal vein
 - d) Left subcardinal vein
 - e) Left subsupracardinal anastomosis



- 8. Mesonephric ducts in the male give rise to all but:
 - a) Epididymis
 - b) Ductus deferens
 - c) Rete testis
 - d) Ejactulatory duct
 - e) Seminal glands
- 9. Ureteric bud tissue in the male gives rise to the:
 - a) Renal pelvis
 - b) Ductus deferens
 - c) Seminal vesicles
 - d) Seminiferous tubules
 - e) Ductus epididymis

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10.	Which structure does not arise from the urogenital sinus?
	 a) Penile urethra b) Urinary bladder c) Prostate urethra d) Uterus e) Bulbourethral glands

- 11. Metanephric diverticulum gives rise to all but the:
 - a) Renal pelvis
 - b) Ureter
 - c) Calyces
 - d) Collecting tubules
 - e) Bladder
- 12. Paramesonephric ducts are not associated with the:
 - a) Oviducts
 - b) Vagina (upper portion)
 - c) Prostatic utricle
 - d) Testis (appendix portion)
- 13. The definitive kidney is derived from the:
 - a) Pronephros
 - b) Mesonephros
 - c) Metanephros
 - d) Supranephros
 - e) Urogenital ridge
- 14. Exstrophy of the bladder is often associated with:
 - a) Adrenal hyperplasia
 - b) Urachal fistula
 - c) Hypospadias
 - d) Epispadias
 - e) Oligohydramnios

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- 15. Meckel's diverticulum is associated with the:
 - a) Urachus
 - b) Ligament of Treitz
 - c) Vitelline duct
 - d) Hepatic duct
 - e) Gastric luminal epithelium
- 16. Regarding development of the GI system, which statement is **incorrect**?
 - a) Midgut exhibits a 270° rotation counterclockwise
 - b) Stomach rotates 90° clockwise
 - c) Rotation of stomach allows for the greater curvature to face right and superior
 - d) Following rotation, the descending colon is retroperitoneal
 - e) The appendix lies in a retrocecal position
- 17. Embryonic foregut differentiates into all but the:
 - a) Liver
 - b) Esophagus
 - c) Spleen
 - d) Stomach
 - e) Pancreas
- 18. Hirschsprung's Disease is a disorder related to:
 - a) Parasympathetic ganglia
 - b) Sympathetic ganglia
 - c) Incomplete intestinal looping
 - d) Perforation of the abdominal cavity wall
 - e) Superior mesenteric artery
- 19. Which statement is **incorrect** regarding development of the gut?
 - a) The urorectal fold divides the cloaca
 - b) The pancreas receives blood from the celiac trunk
 - c) Rotation of the stomach results in the left vagal trunk innervating the anterior wall
 - d) The transverse colon is retroperitoneal
 - e) The spleen is intraperitoneal

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- 20. Regarding development of the gut, which statement is **correct**?
 - a) Stenosis of the gut frequently occurs in the large intestine
 - b) An omphalocele most likely occurs in the 8-9th month
 - c) An annular pancreas results from hyperproliferation of the head of the pancreas
 - d) The gall bladder is derived from the hindgut
 - e) Twisting and knotting of the intestinal loop is termed volvulus
- 21. Which developmental structure-vasculature pair is **incorrect**?
 - a) Gall bladder Celiac artery
 - b) Jejunum Superior mesenteric artery
 - c) Ascending colon Superior mesenteric artery
 - d) Rectum Inferior mesenteric artery
 - e) Descending colon Superior mesenteric artery
- 22. Failure of the interstinal loops to return to the abdominal cavity results in:
 - a) Pyloric stenosis
 - b) Duodenal atresia
 - c) Stenosis of the large bowel
 - d) Omphalocele
 - e) Polydramnios