## INTEGRATIVE BIOLOGY 131 – FALL 2005 EXAMINATION #1 – OCTOBER 17 BLUE VERSION "B"

## Please give the BEST answer.

- 1. The anterior fontanelle is between what two bones?
- a. frontal and temporal
- b. ethmoid and zygomatic
- c. sphenoid and frontal
- d. parietal and frontal
- 2. Capillaries are lined with
- a. cubodial endothelial cells
- b. squamous endothelial cells
- c. columnar cells
- d. collagenous fibers
- 3. The external iliac becomes the femoral artery at the level of the
- a. 4<sup>th</sup> lumbar vertebra
- b. sacroiliac joint
- c. inguinal ligament
- d. pubic tubercle
- 4. Which is not a bony attachment of the trapezius?
- a. humerus
- b. scapula
- c. clavicle
- d. occipital bone
- 5. Phlebitis is a condition concerned with
- a. plagues in the arteries
- b. inflammation of venous valves
- c. inflammation of the tunica intima in veins and blood clotting and is very painful
- d. inflammation in arteries
- 6. The renal and gonadal arteries come off the abdominal aorta between the
- a. superior mesenteric and esophageal
- b. superior mesenteric and inferior mesenteric
- c. common iliac and inferior mesenteric
- d. common iliac and internal iliac

- 7. The tibia and fibula both articulate with the
- a. calcaneus
- b. talus
- c. first metatarsal
- d. femur
- 8. Which vessel (s) carries (y) oxygenated blood?
- a. pulmonary artery
- b. pulmonary veins
- c. superior vena cava
- d. internal jugular vein
- 9. Hemopoietic tissue forms
- a. only erythrocytes
- b. only leukocytes
- c. both a and b
- d. only platelets
- 10. Which of the following is incorrect?
- a. the apex of the heart is in the 5<sup>th</sup> intercostal space
- b. the heart is the size of the spleen
- c. the heart is 2/3 to the right of the midline
- d. the base is inferior to the sternal angle
- 11. Which is not correct in the pelvic floor?
- a. the anus is between the coccyx and the median raphe
- b. the vagina is posterior to the urethra
- c. the urethra is between the vagina and the pubic bone
- d. the levator ani muscle originates from the ischium and the pubic bone
- 12. The vagus nerve provides
- a. sympathetic input to the heart
- b. increased speed to the heart beat
- c. the coronary sinus with innervation
- d. parasympathetic input to the heart which slows the beat
- 13. The mastoid process is a projection behind the ear and connects to the
- a. nasal cavity
- b. middle ear
- c. posterior orbit
- d. maxillary sinus

- 14. Two muscles which close the jaw are the
- a. buccinator and temporalis
- b. masseter and zygomaticus
- c. temporalis and masseter
- d. oricularis oris and buccinator
- 15. The pericardial cavity is
- a. lined with mesothelial cells and filled with fluid
- b. contains platelets to prevent clotting
- c. is surrounded with cuboidal cell linings
- d. is continuous with the right atrium
- 16. Which is not a function of the external oblique?
- a. aids in breathing
- b. aids in defecating
- c. helps to support the floor of the pelvic cavity
- d aids in child birth
- 17 Which combination is true?
- a. the auricle and the atrium are the same structure
- b. the foramen ovale was formerly the fossa ovale
- c. the pectinate muscles are the same as the trabeculae carneae
- d. the pulmonary trunk and the pulmonary arteries both carry venous blood
- 18. Which is correct?
- a. endocardium consists of two layers of endothelial cells
- b. endocardium is sometimes called visceral endocardium
- c. endocardium is continuous with epithelial cells in the blood vessels
- d. epicardium and endocardium are synonymous
- 19. Which does not apply to the frontalis muscle?
- a. connects to the galea aponeurotica
- b. raises the eyebrows
- c. has no bony attachment
- d. raises the eyelids
- 20. Which is not correct?
- a. the interanl carotid artery terminates in the middle cerebral artery
- b. the anterior cerebral artery supplies Broca's area
- c. the internal carotids supply 75% of the blood to the brain
- d. the vertebrals supply 25% of the blood to the brain

- 21. Which is not part of the appendicular skeleton?
- a. scapula
- b. clavicle
- c. pubic bone
- d. sternum
- 22. Which muscle closes the eyelid?
- a. orbicularis oris
- b. orbicularis oculi
- c. levator palpebrae
- d. buccinator
- 23. The parietal layer of the pericardium is
- a. adherent to the visceral layer
- b. adherent to the outer, thick fibrous layer
- c. consists only of tough fibers
- d. is also called the epicardium
- 24. Which is incorrect?
- a. kyphosis is accentuation of the thoracic curve
- b. lordosis is accentuation of cervical curve
- c. scoliosis is lateral deviation of the vertebral column
- d. lordosis is accentuation of the lumbar curve
- 25. The lub component of the heart beat means the
- a. closure of all the semilunar valves
- b. opening of the bicuspid valve
- c. opening of the tricuspid valve
- d. closure of the bicuspid and tricuspid valves
- 26. The roof of the orbit is made up of which bone?
- a. ethmoid
- b. sphenoid
- c. maxilla
- d. frontal
- 27. The orbicularis oris inserts on the
- a. squamous portion of the temporal bone
- b. contralateral side of the cheek
- c. contralateral side of the mouth
- d. same side of the mouth as the buccinator

- 28. The aponeurosis of the external oblique is not involved with the
- a. inguinal ligament
- b. superficial ring of the inguinal canal
- c. iliac spine
- d. mediastinum
- 29. The pectoralis major does not originate on the
- a. clavicle
- b. sternum
- c. humerus
- d. costal cartilages
- 30. Which is correct? Purkinje fibers
- a. form the conduction mechanism of the heart
- b. form the AV node
- c. do not form the bundle of His
- d. line the tricuspid valve
- 31. Which is not correct about the rectus abdominis?
- a. originates on the pubic bone and symphysis
- b. flexes the vertebral column
- c. is surrounded by three layers of aponeurosis both superior and inferior to the umbilicus
- d. inserts on the xiphoid process as well as on the 5, 6 and 7 costal cartilages
- 32. The staight sinus connects the with the supeior longitudinal sinus
- a. cavernous sinus
- b. transverse sinus
- c. inferior longitudinal sinus
- d. sigmoid sinus
- 33. Which is not an elastic artery?
- a. brachiocephalic
- b. subclavian
- c. common carotid
- d. brachial
- 34. All facial bones articulate with the maxilla except the
- a. ethmoid
- b. sphenoid
- c. zygomatic
- d. mandible

- 35. Endarterectomy is a procedure
- a. scraping off plaques from the tunica adventitia of the common carotid
- b. commonly used in muscular arteries
- c. only used in coronary arteries
- d. used to scrape off plaques from the tunica intima in the common carotid arteries
- 36. Which is not correct regarding the triceps?
- a. inserts on the radial tuberosity
- b. powerful extensor of the forearm
- c. originates on the infraglenoid tubercle process of the scapula
- d. originates on the humerus
- 37. The pace maker is in the
- a. left atrium
- b. right atrium
- c. coronary sinus
- d. venous sinus
- 38. The entire body is made of four (4) major kinds of tissues. Which one is not correct?
- a. nervous
- b. connective
- c. capillaries
- d. epithelial
- 39. During diastole which is correct?
- a. the AV valves are open
- b. the AV valves are closed
- c. the semilunar valves are open
- d. the mitral (bicuspid) valve is closed
- 40. The matrix of bone is called \_\_\_\_\_ and is resilient because it has fibers.
- a. hydroxyapatite Ca<sub>10</sub>(PO<sub>4</sub>)<sub>6</sub>(OH)<sub>2</sub>
- b. hydorxyapatite
- c. osteoapatite
- d. hydroxyapatite Ca<sub>6</sub>(PO<sub>4</sub>)<sub>2</sub>(OH)<sub>10</sub>
- 41. Which of the following constitutes the linea alba?
- a. aponeurosis
- b. deep inguinal ring
- c. round ligament
- d. anterior iliac spine

- 42. Atherosclerosis
- a. begins in the tunica media
- b. in coronary arteries causes one third of the deaths in America
- c. never occurs at bifuractions of arteries
- d. cannot be reduced in coronary arteries with the procedure called angioplasty
- 43. Since the latissimus dorsi inserts on the intertubercular groove of the humerus, it does not function to:
- a. medial rotate the humerus
- b. adduct the arm
- c. draw shoulder down and back
- d. raise the arm
- 44. Venous blood from the brain runs in to reach the internal jugular vein
- a. veins
- b. capillaries
- c. dural venous sinuses
- d. smooth muscle channels
- 45. The sella turcica which surrounds most of the pituitary gland is part of what bone?
- a. ethmoid
- b. sphenoid
- c. maxilla
- d. palatine
- 46. Which of the following is not an identifying characteristic of bone?
- a. fossa
- b. foramen
- c. pseudounipolar
- d. trochanter
- 47. Heart valves are made of
- a. enthocardium and smooth muscle
- b. endocardium and connective tissue
- c. epicardium and connective tissue
- d. myocardium and epicardium
- 48. Neutrophils
- a. have one large nucleus
- b. produce antibodies
- c. are smaller than lymphocytes
- d. enter infected areas and destroy bacteria by phagocytosis

- 49. Which bone is not part of the "cheek bone?"
- a. zygomatic process of the temporal
- b. zygomatic process of the mandible
- c. zygomatic bone
- d. zygomatic process of the maxillary bone
- 50. After a fracture of the humerus, which of the following is not part of the healing process?
- a. blood clot forms between two sides of the fracture
- b. periosteal fibroblasts form osteoclasts
- c. a bony collar forms
- d. a callus has some bony fragments

A CLIMBER'S CREED: THE GREATEST REWARDS COME FROM THE GREATEST COMMITMENTS