

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of ENGINEERING & TECHNOLOGY

DEPARTMENT OF MEDICAL SCIENCES
FACULTY OF APPLIED AND HEALTH SCIENCES
DMLS 12 S MID ENTRY

AML 2141: HUMAN ANATOMY AND PHYSIOLOGY II

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST 2013

TIME: 2 HOURS

INSTRUCTIONS:

- 1. This paper consists of Two sections, Answer all questions in A and B.
- 2. This paper consists of Eight printed pages

SECTION A

- 1. The following are the main predisposing factors for cardiac disease except.
 - A. Smoking
 - B. Exercise
 - C. Eating lifestyle
 - D. Hypertension
 - E. All the above
- 2. Which of the following are included in the lower respiratory system.
 - A. Larynx,trachea,bronchi lung
 - B. Bronchioles, Alvoeli, saca
 - C. Trachea, lungs, bionchioles, alveoli
 - D. Pharyn,larynx,bronchi,lungs
 - E. All the above
- 3. Iron is stored in the liver as.
 - A. Iron salt
 - B. Ferrous sulphate
 - C. Ferric Hydroxide
 - D. Ferritin
 - E. Tranferitin
- 4. Muscles are often classified in groups by principle action which they have at a particular joint:
 - Which one is not?
 - A. Flexors
 - B. Activators
 - C. Extensors
 - D. Abductors
- 5. Which one of the following type of muscles is not found in the abdomen.
 - A. External obligue
 - B. Psoars
 - C. Servratus muscles
 - D. Transversus abdominis
- 6. Membranes are layers of tissue lining the body cavities. Which one of these lines the Lungs.
 - A. Peritonium
 - B. Pleura
 - C. Pericardium
 - D. Epithelium

- 7. Which of the following are names of long bones. A. Carpals, larsals, fibula B. Ribs, stenum, Ulna C. Tibia, Humerus, fibula D. Vertebrae, secnomoid bones, skull. 8. The following are organs associated with the respiratory system except. A. Nose B. Pharynx

 - C. Tongue
 - D. Lungs
 - 9. Tissues are groups of cells performing specific functions which one is not:
 - A. Serous
 - B. Connective
 - C. Mascular
 - D. Epithelium
 - E. Nervous.
 - 10. Ball and socket joints have rounded head or ball which articulates in a socket. Which one of these is not?
 - A. Wrist joint, knee joint
 - B. Elbow joint, Hip joint.
 - C. Shoulder joint and Hip joint
 - D. Ankle joint, Elbow joint
 - 11. The ovaries like any other gland produces hormones. Which of the following is one of these?
 - A. Glucagon
 - B. Progesterone
 - C. Androgenic alopecia
 - D. Insulin
 - 12. The major-work cells of the pancrease are
 - A. Alpha cells
 - B. Beta -cells
 - C. Ductular cells
 - D. Acinar cells
 - 13. Gastric acid secretion is stimulated by.
 - A. Angiotensinogen
 - B. Nitric oxide
 - C. Dopamine

- D. Histamine
- 14. Which of the following is not a function of the blood.
 - A. Carry oxygen from the lungs to the tissues
 - B. Carry food from the organ of digestion to the tissues
 - C. Carry lymph from the glands to the brain.
 - D. Help defending the body against invations
- 15. Eyes have different conditions and diseases which one of the following is not among them?.
 - A. Myopia
 - B. Calaract
 - C. Eyebrows
 - D. Tumours
- 16. The walls of the eye consists of three layers of tissues. Which one is not.
 - A. Scalera and cornes
 - B. Chroid
 - C. Retina
 - D. Pupil
 - E. None of the above.
- 17. Gastric acid is important mainly for.
 - A. Ionization of ionic salts
 - B. Protetion of stomach cells
 - C. Destruction of microbes
 - D. Stimulating of gastric Emptying
 - E. None of the above.
- 18. The following substances must be present for blood clotting to occur except.
 - A. Prothrombin
 - B. Calcium
 - C. Platelets
 - D. Fibrinogen
 - E. None of the above
- 19. Ductular cells of the pancrease releases one of the following. Which one.
 - A. Amylase
 - B. Lymp
 - C. Aldosterone
 - D. Bombesin
 - E. All of the above.
- 20. The structure of blood vessels consists of several; Which one is not in the group.
 - A. Endothelium
 - B. Circular muscle
 - C. Smooth muscle
 - D. None of the above

- 21. Endocrine system is made up of glands which secrete hormones. Identify the gland with the correct hormone produced
 - A. vasopressin
 - B. oxtocin
 - C. pancrease-Glucose
 - D. None of the above
- 22. The nervous system has its conditions and diseases which one is not.
 - A. Epilepsy
 - B. Meningitis
 - C. Cerebral haematoma
 - D. All above
- 23. The skeletal system is connected to the bones, circulatory system to the heart, Urinary system is connected to which organ?
 - A. Genitals
 - B. Kidneys
 - C. Lymph nodes
 - D. Brain
- 24. Compound epithelium tissues with no basement membrane but has various layers of cells with different shape is?
 - A. Keratimized stratified
 - B. Non kevatimized
 - C. Ciliated epithelium
 - D. Transitional epithelium
- 25. The human skin has different layers. Which one is not.
 - A. Grandulosum
 - B. Lymph
 - C. Lucidium
 - D. Cornium
- 26. The skeleton is made up of long bones,irregular flat bones and sesamoid bones. Which of the following is not a function of bones.
 - A. Cavity boundary formation
 - B. Storage of calcium salts
 - C. Muscle attachment
 - D. Formation of the lymph.

- 27. The Bile in the liver has a task of emulcification of facts as Lipase from the pancrease has does what?
 A. Converts fats to fatty acids
 B. Acts on protein
 C. Acts on carbohydrates
 D. Converts starch to maltose.
- 28. The liver performs different functions: Which one is not a liver function?
 - A. Deamination of fats
 - B. Changes glucose to glycogen
 - C. Helps in absorption and mixing of food
 - D. Production of heat.
- 29. The excretory system comprises several components. Which one is not?
 - A. Kidneys
 - B. Cortex
 - C. Ureters
 - D. Urinary bladder
- 30. Which one is not part of the Kidney structure?
 - A. Capsule
 - B. Medulla
 - C. Pevis
 - D. Urethra
- 31. The pineal gland is located in which part of the human body.
 - A. Neck
 - B. Brain
 - C. Liver
 - D. Kidney
- 32. The Islets of Langerhans produces Insulin which is used by body to control
 - A. Diabetes
 - B. Blood sugar
 - C. Ulcers
 - D. Renal failure

- 33. The skull is a very important part of the human body. Which one is not its functions?
 - A. Gives shape to the head
 - B. Protect the brain
 - C. Contain sinuses
 - D. Helps in movements
- 34. There are five sensory organs which the brain uses to communicate with outside information which one is not a sensory organ?
 - A. Eyes
 - B. Skin
 - C. Heart
 - D. Tongue
- 35. Which one of these is a condition or disease of the unproductive system.
 - A. Sterility
 - B. Cysts
 - C. Fibrosis
 - D. Amenorrheas
 - E. All the above
- 36. Which of the following is the product of the liver?
 - A. Albumin
 - B. Prothrombin
 - C. Lipoproteins
 - D. Calcitonin
 - E. Hemosderin
- 37. The layers of the heart wall is made up to of the following except.
 - A. Epicardium
 - B. pericandium
 - C. Endocardium
 - D. Myocardum
 - E. Myometrium
- 38. Blood supply to the ovaryis mainly through.
 - A. Pudental artery
 - B. Ovarian artery
 - C. Cephalic artery
 - D. Cystic artery
 - E. All the above

- 39. Blood supply to the gall bladder is via
 - A. Subclarian artery
 - B. Cephalic artery
 - C. Circumflex artery
 - D. Cystic artery
 - E. All the above.
- 40. Control of blood pressure is influenced by high levels of circulating hormone such as .
 - A. Prolactin
 - B. Aldosterone
 - C. Renin
 - D. Insulin
 - E. All the above

SECTION B ANSWER ALL QUESTIONS.

1.a)Enumerate the functions of the cell the head

(10marks)

b)How is urine Acidified?

(5marks)

c) List all the Endocrine associated glands found in.

(5marks)

2a)Homeostaris has a very important function in the human body. Define Homeostasis and with an aid of a sketch describe the flow of function. (20marks)

3. The spleen is an important organ in the body. Discuss the spleen and enumerate its function (20marks)