

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Applied and Health Sciences DEPARTMENT OF MEDICAL SCIENCES

CERTIFICATE IN MEDICAL LABORATORY SCIENCES (CMLS 13M)

AML 1140: HUMAN ANATOMY AND PHYSIOLOGY

SPECIAL/SUPPLEMENTARY: EXAMINATIONS

SERIES: OCTOBER 2013

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this examination

Answer booklet

This paper consists of **TWO** sections.

Answer all questions in **Section A** and **B.** ½ marks deducted for any wrong answer in **Section A**.

This paper consists of **7 PRINTED** pages **SECTION A (40MARKS)**

- 1. Cilliated epithelael cells are mostly found in
 - a) Skin
 - b) Lungs
 - c) Mucus membrane
 - d) None of the above
- 2. Which of these is an organ
 - a) Blood
 - b) Mitchondron
 - c) Liver
 - d) Epithelial
- 3. When you move your arm to pick a pen which musciles are involved
 - a) General muscles
 - b) Cardiac muscles
 - c) Skeletal muscles
 - d) Smooth muscles
- 4. Which of the following is/are visceral organ(s)?
 - a) Skin
 - b) Eye
 - c) Spleen
 - d) Ear
- 5. The primary layers of the skin are
 - a) Hypodermis
 - b) Epidermis
 - c) Comeum
 - d) Dermis
- 6. The following cells are mostly found on epidermis layer of the skin except
 - a) Kerotinocytes
 - b) Kepatocytes
 - c) Merkel cells
 - d) Melanocytes
- 7. Which of these hormones is/are not pancreatic hormones
 - a) Renin
 - b) Crythropuiets
 - c) Glucagon
 - d) Insulin
- 8. Which of these hormones are not produced by hypothalamus
 - a) Antidiureutic hormone
 - b) Progesterone
 - c) Triodothyrunic
 - d) Thyrotrophic Releasing hormone

- 9. The following are function of prolactin hormones
 - a) Inhibit lactation daring pregnancy
 - b) Stimulates milk production from memory glands
 - c) Mediates sexual gratification
 - d) Suppress immune towards the human embryo
- 10. Upper respiratory tract include the following organs except.
 - a) Nasal cavity
 - b) Tracheae
 - c) Nostril
 - d) Larynx
- 11. Digestion involves the following phases except
 - a) Oral phase
 - b) Intestinal phases
 - c) Gastric phase
 - d) Cephalic phase
- 12. The following organs is/are not involved in food digestion
 - a) Spleen
 - b) Pancreas
 - c) Gastric
 - d) Liver
- 13. Which of the following enzymes is produced by pancreases
 - a) Amylase
 - b) Maltase
 - c) Trypsin
 - d) Pepsin
- 14. Digestion of the following feeds starts in the month
 - a) Protein
 - b) Carbohydrates
 - c) Fats
 - d) None of the above
- 15. Human cardiovascular circulation has been classified into
 - a) Lymph circulation
 - b) Pulmonary circulation
 - c) Blood
 - d) Systemic circulation
- 16. Which of the following fluids moves through circulatory system
 - a) Urine
 - b) Blood
 - c) Sweat
 - d) Lymph

	a)	Tendons			
	b)	Brain			
	c)	Spinal cord			
		Muscles			
18.		nich of the following is/are not cell organelles			
		Cell membrane			
		Cyloplasm			
		Mitochodiron			
	d)	Ribosome			
19.	Во	one tissues include the following except			
		Endosteum			
		Corneum			
		Marrow			
	d)	Periosteum			
20	D	entists are found in			
20.		Alia cells			
		Neuron Oesteocytes			
	-	Eryphrocytes			
	u)	Elyphrocytes			
21.	Ap	pendicular skeleton of adult human has bones			
	a)	80 bones			
	b)	126 bones			
	c)	206 bones			
	d)	270 bonus			
22.	Wł	nich of the following is NOT a axial skeleton bone			
	a)	Skull			
	b)	Ribs			
	c)	Pelvic gird			
	d)	Sternum			
23	W/I	Which of the following systems give the body its basic structure			
4 5.		Circulatory system			
		Respiratory system			
		Musculaskeletal system			
		Nervous system			
)	y =			
24.	Glands are mostly found in				
	a)	Circulatory system			
		Reproductive system			
		Endocrine system			
	d)	Immune system			

17. Components of nervous tissue include

27.	a) a) b) c) d)	3 5
28.	a)b)c)	ht joints are found on Nerves tissue Epithelial tissue Muscles tissues Bone tissues
29.	a)b)c)	ich organ of the respiratory system contains the local cards Pharynx Larynx Trachea Bronchus
30.	a)b)c)	roup of organs performing the same function is known as System Tissue Vessels None of the above

25. Protein syntisis in the cell is mostly carried out by

26. Microscopic study of tissue organisaiton is called

b) Smooth endoplasmic Recticulun

a) Mitochondiron

c) Ribosomesd) Golgi bodies

a) Physiologyb) Cross anatomyc) Histologyd) Cytology

SECTION B

1.	(a)	Differentiate between heart and liver	(6marks)		
	(b)	State FOUR functions of the liver	(4makrs)		
	(c)	Name FIVE organelles and state their function	(10marks)		
2. Write short notes on					
	(i)	Nervous system	(5marks)		
	(ii)	Muscles	(5marks)		
	(iii)	Appendicular skeleton	(5marks)		
	(iv)	Axial skeleton	(5marks)		
3.	Expla	in in details processes involved in digestion of food.	(20marks)		