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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 1123]

NOVEMBER 2023

Sub. Code: 6053

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted from the Academic Year 2019-2020)

FIRST YEAR – (CBME)

PAPER I – PHYSIOLOGY Q.P. Code: 526053			
Time: 30 Minutes	Answer A	M Il Questions	Iaximum : 20 Marks
Choose one correct answer in the box provided in the Answer Script. No overwriting should be done. Choice should be given in Capital Letters.			
III. Multiple Choice Questions:			$(20 \times 1 = 20)$
1. Which of the follow A) Mitochondria	ing cellular organelle B) Golgi Appara		es D) Peroxisomes
transport of vesicles	and granules?		elts for the intracellular D) Desmin filaments
3. Which control mechA) Positive feedbaC) Vicious Cycle	_ ~	g rapid movements of t B) Negative fe D) Feed-forwar	ed back
4. Which of the followA) Albumin	A WE I	eaux formation? C) Fibrinogen	D) Prothrombin
·		B) Iron deficien D) Aplastic ane	•
6. A type of white bloc A) Littoral cells	od cell in the alveoli o B) Dust cells	•	D) Kupffer cells
7. Which of the follow A) Atropine	ving drugs would like B) Cholinesterase	•	gravis patient's symptoms? Neostigmine
8. The calcium-binding contraction is A) Dystrophin	g protein that plays a l	(xey role in the regulation of the contract of	on of smooth muscle cell D) Calcineurin
9. Which of the followA) They are slow	_	ing Type I skeletal mu B) They have high į	

They contain myoglobin D) There are numerous mitochondria

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... 2 ... 10. The proenzyme pepsinogen is secreted mainly from which of the following structures? A) Acinar cells of the pancreas B) Ductal cells of the pancreas C) Epithelial cells of the duodenum D) Gastric glands of the stomach 11. The following are the functions of bile salts except A) Reduce the surface tension B) Responsible for emulsification of fat C) Fats are converted into fatty acids and glycerol D) Form micelles 12. The myenteric plexus of the oesophagus is deficient at the 'Lower Esophageal Sphincter' in which of the following condition? A) Gastro oesophageal reflux disease B) Achalasia cardia C) Aerophagia D) Hirshsprung's disease 13. Which is the fundamental mechanism generating hypertonicity in the renal medullary interstitium? A) Active transport of NaCl in thick ascending limb B) Action of ADH in the collecting ducts C) Passive recirculation of NaCl in the medullary interstitium D) Urea permeability of collecting ducts 14. Most important buffer system present in the distal convoluted tubule is A) Bicarbonate B) Phosphate C) Protein D) Ammonia 15. Angiotensin II causes all of the following except A) Stimulation of thirst B) Aldosterone secretion C) Increased ADH secretion D) Vasodilation 16. Metabolic syndrome of obesity includes all except A) Hyperinsulinemia B) Hyperlipidemia C) Accelerated atherosclerosis D) Decreased serum insulin levels 17. The binding of iodine with the thyroglobulin molecule is called A) Iodide trapping B) Oxidation of the Iodide Ion C) Organification D) Coupling 18. Sheehan syndrome is post partum necrosis of B) Pineal gland C) Pituitary gland A) Pancreas D) Adrenal gland 19. In females, the first event during puberty is A) Thelarche B) Pubarche C) Menarche D) Adrenarche

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D) Oxytocin.

20. Which of the following inhibits synthesis and secretion of prolactin by lactotropes?

C) Oestrogen ******

B) Dopamine

A) Somatostatin