2010 Cahama

<u>2019 Scheme</u>	
Q.P. Code: 113001	Reg. no.:
First Professional MBBS Degree Supplementary (SAY) Examinations May 2022 Physiology I	
Time: 3 Hours	Total Marks: 100
 Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space Answer all parts of a single question together • Leave sufficient space between answers Draw table/diagrams/flow charts wherever necessary 	
Long Essays	(2x15=30)
 A 35- year old female had come to a medical outpatient department with complaints of weakness, giddiness and loss of appetite. On examination she was pale. On investigation RBC count :3.5 millions/mm³, Hb:9gm%. Peripheral smear showed microcytes with hypochromia Identify the condition 	
 Discuss the physiological basis for the above condition and its management Discuss the stages of erythropoiesis 	
 Describe the various factors which regulate Discuss the characteristic features of coronary circ regulating coronary blood flow. 	• • • • • • • • • • • • • • • • • • • •
Short essays3. Describe the factors regulating heart rate.	(3x8-40)
 4. Discuss the compensatory changes at high altitude 5. Describe the mechanisms of oxygen diffusion acro 6. Describe the mechanism of micturition reflex. 	
 Describe the mechanisms of digestion and absorp tract. 	tion of fat along the gastro-intestinal
Write briefly8. Explain the physiological basis of edema formation9. Draw and label a normal ECG tracing in lead II.	(5x4=20) n in hypoproteinemia
10. Draw and label a normal oxygen dissociation curve	e. (2+2)
11. Explain the physiological basis for glycosuria12. Describe the enteric nervous system. Write the physiological basis for achalasia	

(10x1=10)

cardia. **One word Answers**

13. Normal serum bilirubin level is..... 14. Perforins are secreted by......cells

18. End systolic ventricular volume is.......

20. Normal ventilation perfusion ratio is......

16. The gastric gland which secretes HCl is......

22. Ideal substance used to measure GFR is.......

15. Carbohydrate digesting enzyme present in saliva is......

21. Bluish discoloration of skin and mucus membrane is called......

19. A law denoting relationship between heart rate and blood pressure is.......

17. 'a' wave of jugular venous pulse is caused due to..........