The West Bengal University of Health Sciences B.Sc. in Medical Microbiology 1st Semester March, 2023 Examination

Subject: Basics of Physiology ORE CIT Time: 2 hrs. Full Marks: 50 Attempt all questions ESTO 201 Tick the correct answer: 10 x 1 PALLIBR HCl is secreted in stomach from: Peptic cell. ii) Parietal cell. iii) Mucous cell. iv) Serous cell. The sphincter present between esophagus and stomach is: b) Pyloric. ii) Oddi. iii) Ileo-coecal. iv) Cardiac. c) Lacteal is found in: Stomach. ii) Heart. iii) Villi. iv) Salivary gland. d) Sympathetic nervous system originates from: Cranio-sacral division. ii) Glossopharyngeal area. iii) Thoraco-lumber division. iv) None of the above. e) Ptyalin help in partial digestion of: i) Monosaccharide. ii) Polysaccharide. iii) Peptide. iv) Disaccharide. Pacinian corpuscle is a: Thermoreceptor. ii) Touch receptor. iii) Pain receptor. i) iv) Pressure receptor. g) Sertoli cell seretes: Oxytocin. ii) Inhibin. iii) ADH. iv) GH. h) Deficiency of thyroxin in children is called: Cretinism. ii) Myxedema. iii) Goitre. iv) Grave's disease. i) Baroreceptor is found in: i) Carotid sinus. ii) Aortic body. iii) Carotid body. iv) Ganglia. Auditory receptors are located on: <u>j)</u> Tectorial membrane. ii) Plasma membrane. iii) Basilar membrane. iv) None of these. 2. Answer any four of the following questions: 4 x 2 What is myasthenia gravis? b) Calculate cardiac output when heart rate and stroke volumes are 70 beats/ min and 80 ml. respectively. c) Differentiate between HbA and HbF. d) Name the corpuscles engaged in phagocytosis. e) Write the location and function of opioid receptor. f) Mention any two reasons of peptic ulcer. 3. Answer any four of the following questions: 4×4 What is heparin? Write its role in our body. 1 + 3Discuss the factors controlling erythropoiesis. b) 4 What is creatinine clearance test? State its significance. c) 2+2Elucidate Mary's reflex of heart. d) 4 e) What is lung surfactant? State its role. 2+2Differentiate between ecrine and apocrine gland. What is sebum? 3+1

Describe the stepwise transport of oxygen from lung into tissues. What is the significance of

What is Cushing's syndrome? Mention briefly the functions of adrenal medullary hormones.

Discuss the changes in ovary in different phases of menstrual cycle mentioning the role of

hormones. Differentiate between spermatogenesis and spermiogenesis.

 2×8

5+3

2+6

6+2

4. Answer any two of the following questions:

chloride shift?

b)