The West Bengal University of Health Sciences B.Sc. in Medical Microbiology 1st Semester June-July, 2022 Examination

Time: 2 hrs.

ESTD 2017

Subject : Basics of Physiology

Full Marks: 50

Attempt all questions

1.	Tic	ck the correct answer:	0 x 1
	a)	Which of the following hormone helps in the secretion of HCL from stomach?	
		i) Gastrin. ii) Secretin. iii) Pepsin. iv) Renin.	
	b)	Which of the following human cells produce insulin?	
		i) Beta cells. ii) F cells. iii) Alpha cells. iv) Delta cells.	
	c)	Which component of protein contributes to maximum percentage to total plasmaprotein?	
		i) Albumin. ii) Globulin. iii) Fibrinogen. iv) Prothrombin.	
	d)	The hormone which converts angiotensinogen to angiotensin I is:	
		i) Angiotensinase. ii) Renin. iii) Rennin. iv) None of these.	
	e)	The gaseous exchange in alveoli is a type of:	
		i) Simple diffusion. ii) Osmosis. iii) Active transport. iv) Passive transport.	
	f)	The reason for the dicrotic notch on the aortic pressure curve is:	
		i) Contraction of aorta. ii) Closure of the aortic valve.	
		iii) Rapid filling of the left ventricle. iv) Closure of the pulmonary valve.	
	g)	Which of These is a Male Sex steroid?	
	1.	i) Aldosterone. ii) Testosterone. iii) Pheromones. iv) Insulin.	
	h)	Respiratory centre is located in?	
	.,	i) Cerebellum. ii) Medulla oblongata. iii) Cerebrum. iv) Basal ganglia.	
	i)	Which of the following controls skeletal muscles?	
		i) Autonomic nerves. ii) Somatic nerves.	
	:)	iii) Sympathetic nerves. iv) Vagal nerve.	
	j)	Which of the following is the inner most layer of human eye?	
		i) Retina. ii) Choroid. iii) Sclera. iv) Cornea.	
2.	Ansv	wer any four of the following questions:	4 x 2
	a)	What is end diastolic volume?	4 X Z
	b)	Define chloride shift.	
	c)	Functions of albumin.	
	d)	What is PURPURA?	
	e)	What is micturition reflex?	
	f)	Name the muscle proteins.	
3.	Ansv	wer any four of the following questions.	4 x 4
	a)	What do you mean by counter current system?	
	b)	Describe & draw the visual pathway from retina to cortex.	
	c)	Add a short note on NMJ.	
	d)	Functions of thyroid hormones.	
	e)	Stages of spermatogenesis.	
	f)	Pressure and volume changes in cardiac cycle.	
1	Λ	recommendate of the Callegian and the control of the Callegian and	
4.			2 x 8
	a) b)	Explain the phases and regulations of menstrual cycle in ovary and uterus. Mention the events in cardiac cycle with special reference to ECG and heart sounds.	
	c)	Mechanism of transduction and neural pathways for auditory sensation.	
	<i>S</i>	recommission of danisaction and neural paniways for additiony scrisation.	