Bachelor of Science (F.Y.B.Sc.) (Part-I) First Semester (Old)

001 – Biochemistry-I Paper-I (Human Physiology)

P. Pages Time : T	S: 2 Three Hours		GUG/W/18/1198 Max. Marks : 50
No	2. All qu	uestions are compulsory. uestions carry equal marks. diagram wherever necessary.	
1.	Describe in de	tail Mechanism of transport of O ₂ by blood.	10
		OR	
	Give a detail a	ccount of transmission of impulse through the sy	ynapse. 10
2.	Describe in de	tail Active & Passive transport.	10
		OR	
	Explain in deta	ail menstrual cycle.	10
3. a)	Enlist the func	tions of platelets.	21/2
b)	Write a note or	n "All or none low" & "Refractory Period".	21/2
c)	Draw a well di	agram of neuromuscular junction.	21/2
d)	Describe Ooge	enesis.	21/2
		OR	
e)	Explain how k	idney regulate acid-base balance.	21/2
f)	Describe absor	eption of fats.	21/2
g)	Write a note or	n membrane composition.	21/2
h)	Write in brief	about HCG & its functions.	21/2
4. a)	Briefly describ	pe Bohr's effect.	21/2
b)	Describe gastr	ic digestion of carbohydrates.	2½
c)	Write in brief	$Na^+ - K^+$ pump.	21/2
d)	Describe cAM	P as secondary messenger.	21/2
		OR	

	e)	Describe Juxtaglomerular apparatus.		
	f)	Draw a well labelled diagram of a multipolar neuron.		
	g)	Write in brief about fluid mosaic model.		21/2
	h)	Give the list of hormones secreted by pituitary with its function.		21/2
5.		Attempt any ten from following.		
		a)	Define Chloride shift.	1
		b)	Give any two functions of monocytes.	1
		c)	Draw the structure of nephron.	1
		d)	Define membrane potential.	1
		e)	What is nerve impulse?	1
		f)	Name any two enzyme responsible for digestion of proteins.	1
		g)	Draw Calcium pump.	1
		h)	Define 'Z' line in muscle structure.	1
		i)	Which ion play important in sliding mechanism of muscle contraction?	1
		j)	Give any two functions of thyroid gland.	1
		k)	Give the function of glycogen.	1
		1)	Give the name of any six hormones.	1
