S.Y.B.Sc. BIOCHEMISTRY II IV-SEMESTER EXAM. 2016-15 75-MARKS 2½-HRS. PG-3 Draw diagram wherever it is necessary. All Questions are compulsory. Right hand tigures indicates full marks. A) Answer the following questions: (Any 4) What is twitch? i). What is myofibril? ii) iii) What is tropomyosin? Name the parts of myosin filament. What is movement of variation? Define chemotropism. vi) Define thermotactic movement. vii) What is nasty movement? viii) Answer the following in short. (Any 2) B) 6 Write a short note on tetanus. Explain repolarisation. ii) iii) Explain susmonastic movement with suitable example. How will you prove root is positively hydrotropic? iv) 6 Answer the following in brief: (Any 1) Give a detail account on muscle contraction. Explain phototropism, geotropism with respect to the role of auxin. Answer the following questions: (Any 4) What is autonomic nervous system? What is neurological cell? ii) Name the different transporters involved in nerve impulse propagation. Write down the structure of norepinephrine. iv) What is the function of ca+2 in nerve impulse? V) What do you mean by indirect antagonist molecule? vi) What is synaptic deft? vii) What is bipolar neuron? viii) B) Answer the following in short. (any 2) Mention the role of neuroglical cells. **i**) Write down the mechanism of termination of nerve impulse. Write shortly about refractory period. iii) Write a note on catecholamines. P.T.

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C) Answer the following in brief: (Any 1)	December of the Control of the Contr
 i) How does nerve impulse propagate through axon. 	
ii) Write a note on distribution of ner ous system throughout huma	an body.
Q. 3 A) Answer the followings : (Any 4)	
i) What is the function of cisterna chyli?	
ii) What do you mean by coagulation time of blood?	
what do you mean by extracellular fluid?	
Name one bile pigment.	
v) How does bile help in the digestion of food?	
vi) vvnat do you mean by calculi?	
vii) What do you mean by diuretics ?	
viii) Define whole blood.	
B) Answer the following in short : (Any 2)	
) What do you mean by transudation ?	
Mention the different properties of lymph.	
What are the different function of blood.	
iv) What are the difference between intercellular and extracellular fluid	d.
C) Answer the following in brief. (Any 1)	
i) Mention the different factors affecting formation of urine.	
ii) What are the difference blood coagulation factors.	
Q. 4.1 A) Define the following: (Any 1)	
i) Amphoid manager	
"y Nosit mainent	
B) Answer the following by choosing correct option. (Any 3)	
i) Tropomyocin inhibit active site present on (G-actin / F-actin / F-a	ctin / Actin protein)
ii) Myosin has 2 (heavy chain / light chain / cross bridge.)	
iii) Thigh muscle is Twitch Muscle. (Slow / fast / rapid)	
iv) shows seismonastic movement (Mimosa sp. / Sunflower / t	ulip)
v) Tactic is paratonic movement of (Curvature / Locomotoin	/ veriation)
vi) Circum nutation is a subtype movement (Nasty / nastic / tr	ropic)
Q. 4.2 A) Define the following : (Any 1)	
i) Multipolar nerve ii) Glutamine	
B) Answer the following by choosing correct option. (Any 3)	
i) nervous system perform housekeeping functions.	
(Sympathetic / parasympathetic / auto nomic)	
ii) GABA is a neurotransmitter (positive / negetive / neuromod	dulator)

ii)	The Na+ - K+ ATP are pump pumps out and in respectively.
	(3 Na+ - 2 K+ / 2 K+ - 3 Na+ / 2 Na+ - 3 K+)
v)	Synaptic dift is wide. (0.02 mm / 0.02 μm / 0.2 μm)
	Threshold potential is (-64 mv / - 74 mv / - 54 mv)
	Schwan all produce myelin scath of nerves. (PNS / CNS / ANS).
A)	Write short notes. (Any 1)
i)	lymph ii) Starling's hypothesis
B)	Fill in the blanks: (Any 3)
i)	Lymphatic capillaries are not found in spleen, epidermis, internal ear & eye cobe.
	(bone / cartilage / tendroh)
ii)	Yellow colour of plasma is due to small amount of billirubin & xanthophylin.
	(bile pigment / oxalate / carotene)
iii)	During clotting prothrombin is converted into (thromboplastin / thrombin / erythropoetin)
iv)	Formation of proconvertin is retarded in deficiency of(Vit A / Vit B / Vit K)
v)	the state of the s
	(Tissue fluid / Cerebro spinal fluid / Lymph)
vi)	(Gall-bladder / Spleen / Pancreas)

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