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SUBJECT CODE NO:- 6549 FACULTY OF SCIENCE & TECHNOLOGY

M.Sc. (Sem-II)

Examinations March/April-2022 (To be held in June/July-2022) Zoology Biophysics -ZOO-203

[11111	ie: 3:	45 Hours			Liviax.iviarks:o				
N.B		Please check whether you have got the right question paper. i) Q.No.1 is compulsory.							
11.D	ii) Attempt any five questions from Q.No.2 to 8.								
		11)	Tittempt any 11 to question						
			~~.			20			
Q.1									
	1)	Diffusion of water through selectively permeable membrane isa) Imbibition b) Osmosis							
		c) Translocati	ion	d) Diffusion	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
		c) Transfocati		d) Dirusion					
	2)	Movement of ions or molecules across the cell membrane from lower concentration to higher concentration with the help of protein or enzyme is called as							
		a) Passive tra		b) Osmosis	75				
		c) Active tran	sport	d) Translocation					
	3)	The limitation							
	-,	The limitation of 1 st law of thermodynamic isa) It does not indicate possibilities of spontaneous process proceeding in a definite direction							
		b) It assign a quality to different form of energy							
		c) It indicate	the direction of any spont	aneous process					
		d) None of the	ne above.						
	4)	Which of the	a a avectora						
	4)	a) energy	following option is correct	b) mass	be system.				
	G	c) temperatur		d) momentum					
	3	C) temperatur		a) momentum					
	5)	The bye-prod	uct of photosynthesis is						
	3	a) CO ₂	b) Energy	c) Sugar	d) O_2				
	6)		atigue due to accumulation		d) CO-				
2 6 6	60	a) ATP	b) Phosphate molecule	es c) Lactic acid	d) CO ₂				
	7)	for neurotransmitter.							
	a) Pre-synaptic ending								
	b) Post-synaptic ending								
	25,00	c) Synaptic of	eleft						
	136	d) None of a	bove						

	8)	Radioactivity was first described by-						
	,	a) Becquerel	b) Khorana					
		c) James Watt	d) Joseph Lister					
	9)	Acute radiation syndrome (ARS) is occurs by exposure of radiations of a) Low dose in short period of time						
		b) High dose in long period of time						
		c) High dose in short period of time		19 (5) C				
		d) Low dose in long period of time		9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9				
	10)	10) In in-utero effect shows which biological effect of the following.						
		a) Intra-uterine death of fetus		360				
		b) Growth retardation of fetus						
		c) Developmental abnormalities						
		d) All of the above						
Q.2	What is diffusion? Explain factors affecting rate of diffusion. Add a note on significance of it in Animals and plants.							
Q.3		Write down chemical composition of cell membrane. Explain fluid mosaic model of plasma membrane.						
Q.4	What is membrane transport? Give an account of endocytosis & exocytosis.							
Q.5	Define photosynthesis? Explain Light & Dark reaction.							
Q.6	Give an account of Mechanism of muscle contraction based on sliding filament theory.							
Q.7	Exp	lain structure of synapse? Give an account of	transmission of nerve impulse.	12				
Q.8	Write notes on (Any two)							
		a) Secondary active transport						
	30	b) Role of cholesterol in plasma membrane st	ability					
	- (2) (2)	c) Neural aspect of vision.						