19BP22			(Pages: 2)		ame:eg. No:	
	SE	COND YEAR B.P.Ed				
	В	PE2 T7 - PHYSIOLO	* *		EXERCISE	
		(20)	15 Admission	onwards)		
Time:	Three I	Hours			Maximum: 75 Marks	
		Answer any	three question	ons from Part – A		
	A	ny <i>one</i> question from P	-			
			Part A			
1.	Explai	n the physiology of mu	scle contracti	on.		
	1	1 7 27			$(1 \times 15 = 15 \text{ Marks})$	
2.	Give a	n explanation on:			,	
		Second wind.				
	(b)	Oxygen Dept.				
	(c)	Catabolism and Anabo	olism			
					$(3 \times 5 = 15 \text{ Marks})$	
3.	(A) M	atch the following:				
	1.	Skin fold Caliper	-	Muscle		
	2.	Myocardium	-	Sarcoplasm		
	3.	Sarcolemma	-	Body fat		
	4.	Muscle	-	Breathing		
	5.	Tidal Volume	-	Involuntary		
	6.	Krebs cycle	-	Gall bladder		
	7.	Salivary gland	-	Mitochondria		
	8.	Bile	-	Actin		
	9.	Intercostal Muscle	-	Heart		
	10	. Reflex action	-	Salivary glands		
					$(10 \times 1 = 10 \text{ Marks})$	
	(B) Fi	ll in the blanks:				
	(a)	is the amount of air that remains in the lungs and passage ways				
		after a maximal expira	ation.			
	(b)	Blood is deoxygenate	d in			
	(c)	Gas exchange between	n the blood ar	nd body cell is cal	led	

	(d) Subtract from	to get a maximum heart rate during					
	exercise.						
	(e) The result of Krebs cycle is	<u> </u>					
		$(5 \times 1 = 5 \text{ Marks})$					
4.	Explain:						
	(a) ATP.						
	(b) Neuromuscular junction.						
	(c) Factors affecting Speed.						
		$(3 \times 5 = 15 \text{ Marks})$					
5.	Explain:						
	(a) Effect of exercise on Circulatory System.						
	(b) Effect of exercise of Muscular System.						
	(c) Physiological aspects of warming up.						
		$(3 \times 5 = 15 \text{ Marks})$					
	Part B						
6.	. (a) Explain the classification and mode of action of digestive enzymes.						
	(b) Carbohydrate metabolism.						
		$(2 \times 7 \frac{1}{2} = 15 \text{ Marks})$					
7.	(a) Mechanism of respiration.						
	(b) Explain, how the Cerebrum and cerebellur	n is related with Physical movement and					
	movement learning.						
	(c) Describe, how temperature influence the m	netabolism.					
		$(3 \times 5 = 15 \text{ Marks})$					
	Part C						
8.	Write short note on any <i>five</i> of the following						
	(a) Muscle tone.						
	(b) Muscle fatigue.						
	(c) Alveoli.						
	(d) Ultra filtration.						
	(e) Spinal cord.						
	(f) Conditioning.						
	(g) Osmotic regulation						
	(h) Transfer of body heat.						
		$(5 \times 3 = 15 \text{ Marks})$					
