21BP22		(Pages:	<i>'</i>	Name:	
SEC	·	•	Reg. No: DEGREE EXAMINATION, APRIL 2023 ary/Improvement)		
CC15U	BPE2 T7 / CC19U BPE2 T7	* *	OGY AND PHYSIOLOGY OF EXERCI	SE	
Time	Three Hours		Maximum: 75 Mark	S	
		•	ions from Part – A. stion from Part C is Compulsory		
1.	Explain the effect of exercis	e on Circulato	ory System.		
			$(1 \times 15 = 15 \text{ Marks})$	3)	
2.	Give an explanation on:				
	(a) Digestive system				
	(b) Hyper trophy of Muscle				
	(c) Anabolic training				
			$(3 \times 5 = 15 \text{ Marks})$	3)	
3.	(A) Match the following:				
	1. Sphygmomanometer	-	Osmotic regulation.		
	2. Tidal volume	-	Diastole.		
	3. Hypothermia	-	Vital capacity.		
	4. Cross bridges	-	Perimysium.		
	5. Heart beat	-	Breathing.		
	6. Muscle	-	Blood pressure.		
	7. Heart	-	Elevated body temperature.		
	8. Tidal volume	-	Volume of air.		
	9. Kidney	-	Endocardium.		
	10. Spiro meter	-	Myosin.		
			$(10 \times 1 = 10 \text{ Marks})$;)	
	(B) Fill in the blanks:				
	(a) Systolic pressure of a normal person is				
	(b) is the volume of air expire after a deep inhalation.				
	(c) Blood is deoxygenated in				
	(d) The result of Krebs cycle is				
	(e) carries the	nerve signals	from brain to the body parts.		
			$(5 \times 1 = 5 \text{ Marks})$	3)	

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- (a) Why breathing rate is increasing during training?
- (b) Neuromuscular junction.
- (c) Factors affecting acquisition of skill.

 $(3 \times 5 = 15 \text{ Marks})$

5. Explain:

- (a) Physiological factors of Speed and Strength.
- (b) Muscle tone and muscle fatigue
- (c) Mechanism of respiration.

 $(3 \times 5 = 15 \text{ Marks})$

Part B

- 6. (a) Explain elasticity and contractility of muscle.
 - (b) Fat metabolism.

 $(2 \times 7 \frac{1}{2} = 15 \text{ Marks})$

- 7. (a) Second wind.
 - (b) Explain the physiological response of body to the hot climate.
 - (c) Functions of cerebrum and cerebellum.

 $(3 \times 5 = 15 \text{ Marks})$

Part C

- 8. Write short note on *any five* of the following:
 - (a) Spinal cord.
 - (b) Excitability of muscle.
 - (c) Pulmonary respiration.
 - (d) Ultra filtration.
 - (e) Warming up.
 - (f) Role of inter costal muscle.
 - (g) Ionic regulation.
 - (h) Stitch and cramps.

 $(5 \times 3 = 15 \text{ Marks})$
