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## SECOND YEAR B.P.E. DEGREE EXAMINATION, APRIL 2015

Paper VII—PHYSIOLOGY AND PHYSIOLOGY OF EXERCISE

(2013 Admissions)

Time: Three Hours

Maximum: 75 Marks

Answer any three questions from Part A and two questions from Part B.

Question 8 is compulsory.

## Part A

1. Define enzyme and explain their mode of digestive action.

(15 marks)

- 2. Explain the effect of exercise on :-
  - (a) Circulatory system.
  - (b) Muscular system.
  - (c) Respiratory system.
- 3. (A) Match the following:-
  - 1 Sphygmomanometer
- SA node.

2 Glycolysis

Hypothalamus.

3 Spirometer

- Myosin.
- 4 Skin fold caliper
- Muscle.
- 5 Tidal volume
- Blood pressure.
- 6 Hypothermia
- Break down of glucose.

7 Pacemaker

Measuring body fat.

8 ATP Stored

- Vital capacity.
- 9 Cross bridges
- Elevated body temperature.
- 10 Temperature regulation
- Volume of air.

(B) Fill in the blanks :-

(10 marks)

- (a) Number of ATP generated through Krebs Cycle ———.
- (b) Name the structural unit of nervous system —

Turn over

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- (	c) The amount of air inspired or expired in one minute ———.	
(	d) Name the outer connective tissue covering the entire muscle —	<del></del> .
(	(e) Blood is oxygenated in ———.	
		(5 marks
Explair	:- access and the state of the	
(a)	Neuromuscular junction.	
(b)	Pancreas.	
(c)	Cardiac cycle.	
T 1.		(15 marks
Explair		
(a)	ATP.	
(b)	Characteristics of muscle.	
(c)	Transfer of body heat.	(15 marks
	Part B	(10 marks
(a) Gir	ve a brief disruption of different type of muscle.	
	scuss the physical and chemical changes that occur during muscle	contraction.
		$(2 \times 7\frac{1}{2} = 15 \text{ marks})$
Describ	e Briefly :—	
(a)	Comparison between fat and carbohydrate metabolism.	
(b)	Mechanism of respiration.	
(c)	Factors affecting strength.	
		(15 marks
Write s	short note on any five of the following:—	
(a)	Muscle tone.	
(b)	Cerebrum.	
(c)	Second Wind.	
(d)	Tidal volume.	
(e)	Pulse rate.	
(f)	Bile.	

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

(g) Oxygen debt.