2021

PHYSIOLOGY—HONOURS

Paper: DSE-B-1

(Work, Exercise and Sports Physiology)

Full Marks: 50

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Group-A

1. Answer *any five* questions.

output.

(b) What is warm up? What are the benefits of warm up?

(c) What do you mean by OBLA? What is lactate tolerance and describe its limitations?

(d) What do you mean by lean body mass? Mention the storage sites for essential fat and storage fat.

	(a)	Write short note on Work load classification on the basis of heart rate, Oxygen consumption and energy
2.	Ansv	wer any two questions.
Group-B		
	(h)	What is mesomorphy?
	(g)	What do you understand by 'steady state' of exercise?
	(f)	How can you calculate work done of an individual in Bicycle ergometer?
	(e)	Do the heart rate and pulse rate have the same meaning? Explain.
	(d)	What is 'Second Wind'?
	(c)	Give two examples of body composition analysis method.
	(b)	What is meant by lactate threshold?
	(a)	Give the concept of Physiological work.

 2×5

5

2+3

2+3

2+3

Group-C

- 3. Answer any three questions.
 - (a) Describe a suitable indirect method for determination of Energy Cost of an individual doing sedentary work.
 - (b) (i) State the modifications of the Original Harvard Step Test in Indian context.
 - (ii) Describe the principle, method, calculation and interpretation of the Modified Harvard Step Test.

2+2+2+2+2

(c) Describe the basic principles and different methods of Training.

5+5

- (d) (i) Describe the significance of Physical Growth status.
 - (ii) Describe the method for measurement of percent body fat of an individual using skinfold caliper.

4+6

- (e) (i) Describe the physiological responses to static and dynamic muscular work.
 - (ii) What is relative aerobic strain of a work?
 - (iii) How is it involved in analysis of acceptable work load?

6+1+3