2022

PHYSIOLOGY

[HONOURS]

(B.Sc. Sixth Semester End Examination-2022) PAPER-DSE4T

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as

far as practicable

Illustrate the answers wherever necessary

1.	Answer any FIVE questions of the following:	5x2 = 10
a)	What do you mean by lactate threshold?	2
b)	What are the objectives of ergonomics?	2
c)	What do you understand by muscle hypertrophy?	2
d)	How does VO ₂ max differ from VO ₂ ?	2
e)	What is athletic heart?	2
f)	Discuss the principle of bicycle ergometer.	2
g)	What is isokinetic work?	2
h)	Define O ₂ debt.	2
2.	Answer any FOUR questions of the following:	4x5 = 20
a)	State the concept of EPOC & mention its significance.	3+2
b)	Discuss the respiratory changes during graded exercise	5.

c)	State the different mechanism of muscular fatigue.	5	
d)	Describe briefly the assessment of physical fitness by H	arvard	
ĺ	step test.	5	
e)	Discuss how ergonomic principles reduce occupational	health	
-,	hazards.	5	
f)	Describe different factors that affect VO ₂ max.	5	
3. Answer any ONE questions of the following: 1x10 = 10			
	a) i) Describe the cardiovascular changes during graded	vork.	
	ii) State the energy pathways involved in anaerobic ex	cercise.	
	,	5+5	
	b) i) State the application of anthropometry in erg designing.	onomic	
	ii) Mention any four anthropometric measurements	of our	
	body parts with their physiological importance.	5+5	