2022

Physiology [HONOURS] (CBCS)

(B.Sc. Third Semester End Examination-2022) PAPER-C6T [Respiratory System]

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 are carbamino compounds?
- b) What do you mean by vital capacity?
- c) What do you mean by airway resistance?
- d) What is Bohr effect
- e) What do you mean by transpul monary pressure?
- f) What is total lung capacity (TLC)?
- g) Discuss the symptoms of asthma and emphysema.
- h) Where are respiratory chemoreceptors located?

2.	Answer any four questions of the following:	4x5 = 20
a)	Briefly explain the ways in which oxygen is transport	ed in the
	blood.	5
b)	Discuss the factors that affect the lung compliance. N	lame the
	different muscles involved in inspiration and expiration	. 2+3
c)	Discuss about the chemical regulation of respiration.	What is
	cyanosis?	4+1
d)	Discuss the factors that shift the oxygen haen	noglobin
	dissociation curve to the left.	5
e)	State the non-respiratory functions of lungs.	5
f)	Differentiate between static and dynamic compliance.	What is
	FRC?	3+2
3.	Answer any one question:	10 = 10
a)	i) What is chloride shift?	10 10
	ii) Explain the nervous regulation of respiration.	
	iii) Discuss the different types of hypoxia with symptom	c
	, with symptom	2+4+4
b)	i) Write the peculiarities of pulmonary circulation.	21414
٧,	ii) Define ventilation – perfusion ratio.	
	iii) What do you mean by lung surfactant?	5+3+2