### 2022

## **PHYSIOLOGY**

## [HONOURS]

# (B.Sc. Sixth Semester End Examination-2022) PAPER-C13T

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							
i)	What is Jetlag?								
j)	Why aldosterone is essential for life?								
k)	What is hypophysial portal vessel?								
l)	Define rT <sub>3</sub> .								
m)	What is Rathke's pouch?								
n)	What is circadian and ultradian rhythm?								
o)	Why heart is called an endocrine organ?.								
p)	What is biological clock?								
2.	Answer any FOUR questions of the following:	4x5 = 20							
c)	Mention the source and functions of gastrim.	1+4							
d)	Write notes on – i) CCK-Pz ii) Melatonin	$2\frac{1}{2}\times2$							

e) Mention the differences between dwarfism and cretinism. What

	is pan hypopituitarism?								4+1		
f)	Discuss	the	metabol	ic	functions	of	cortise	ol. V	Vhat	is	
	Ketoacido	sis?							4+1		
g)	Discuss tl	Discuss the role of insulin in the maintenance of blood sugar								gar.	
	Mention the features of NIDDM.							3+2			
h)	Discuss the histological structure of adenohypophysis. What are										
	the functions of oxytocin?							3+2			
3.	. Answer any ONE questions of the following: 1x							10 =	10		
a)	Discuss	the	process	of	Thyroxin	syr	thesis	with	spec	ial	
	emphasis	on	the role	of	peroxidise	. M	ention	the a	ction	of	
	Thyroxin in foetal life. Why Thyroxin is called prohormone										
									6+2	+2	
b)	Discuss t	Discuss the mechanism of action of G.H. What are the actions									

4+5+1

### RNLKWC/B.Sc./CBCS/VIS/H/C13T/22

of ADH? What is hyperinsulinism?