2021

Physiology (Hons) [Third Semester] Paper - C5T

Full Marks: 40
Time: 2 hours

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 of the following:		5×2=10	
	a)	What is cardiac index?	2	
	b)	Mention the properties of cardiac muscle.	2	
	c)	State Starling's law of heart.	2	
	d)	Why Cardiac muscle is not fatigued?	2	
			(Turn Over)	

	e)	What do you mean by myocardial infarction?	2		
	f)	Define Fick's principle?	2		
	g)	What is venous return?	2		
	h)	What do you mean by apex beat of heart?	2		
Group-B					
2.	Ans	swer any four of the following. 4×5	5=20		
	a)	Why S.A. node is called the pacemaker of heart? We is artificial pacemaker. $2\frac{1}{2}+2$			
	b)	Write short notes on heart block.	5		
	c)	Mention the origin & significance of different has sound. $2\frac{1}{2}+2$			
	d)	Write short notes on aortic body & carotid body. $2\frac{1}{2}+2$	$2\frac{1}{2} = 5$		
	e)	What are the special junctional tissues of heart?	5		
	f)	Write any four peculiarities of coronary circulation	on. 5		
B.A.	RNLF	K-/Psychology/C5T/21 (Continue)	nued)		

Group -C

Answer any one of the following : $1\times10=10$

Mention different components of normal ECG record.
 State the physiological importance and limitations of ECG.

 $5+2\frac{1}{2}+2\frac{1}{2}=10$

2. Describe the process of determination of cardiac output by Fick's method.

Discuss the factors regulating cardiac output.

Write two factors affecting blood pressure. 4+4+2