Full Marks: 40

UG/3rd Sem/PHYSIO(H)/T/19

Time: 2 Hours

[Turn Over]

2019

B.Sc.

3rd Semester Examination

PHYSIOLOGY (Honours)

Paper - C 6-T

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practiable.	
1. Answer any five questions: 5×2=	=10
(a) What do you mean by portal circulation?	2
(b) What is cardiogenic shock?	2
(c) What is stokes - Adams syndrome?	2
(d) Why artificial pacemaker is used?	2
(e) Justify the role of cardiac muscle as electrand functional syncitium.	rical 1+1
(f) What is tripple response?	2

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(g) What do you mean by angina pectoris? 2
(h) What is venous return?
2. Answer any <i>four</i> questions : $4\times5=20$
(a) State the significance of different components of normal ECG 5
(b) How blood pressure is regulated via baroreceptor responses?
(c) Discuss the role of different factors regulating cardiac output.
(d) Mention the origin and significance of different heart sounds.
(e) Discuss about the factors that affect resistance to blood flow.
(f) What are central, peripheral and venous pulses? State the relationship between minute volume and heart rate. 3+2
3. Answer any <i>one</i> question : $1 \times 10 = 10$
(a) Discuss about the origin and propagation of cardiac impulse with the help of a labelled diagram. Why SA node is called the pacemaker of heart? (6+2)+2

(b) Discuss the anatomical organization of cerebral circulation mentioning the peculiarities. State the importance of Circle of Willis. (5+3)+2