

2018

CBCS

3rd Semester

PHYSIOLOGY

PAPER—C6T

(Honours)

Full Marks : 40

Time : 2 Hours

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

**Circulat'ion**

1. Answer any five questions :

5×2

(a) What do you mean by anastomotic channel?

(b) What is PSVT?

(Turn Over)

- (c) What is cardiac index ?
- (d) State the cause of occurrence of 3rd heart sound.
- (e) What is vagal escape ?
- (f) What is Bainbridge reflex ?
- (g) What is portal circulation ?
- (h) What is Einthoven's triangle ?

2. Answer any *four* questions : 4×5

- (a) Write brief note on blood-brain barrier.
- (b) Discuss about the role of renin-angiotension system in maintaining cardiovascular homeostasis.
- (c) Describe any two peculiarities of coronary circulation in foetal life.
- (d) Name the leads used in recording of ECG and their functions.
- (e) Define Frank-Starling's law of heart. Discuss briefly about heart block. 2+3

- (f) Discuss how cardiac impulse is propagated through special junctional tissues of heart.

3. Answer any *one* question : 1×10

- (a) Discuss about the electrophysiological concept of generation of pacemaker potential. Why artificial pacemaker is used? What is Einthoven's triangle?

6+2+2

- (b) Briefly describe the events of cardiac cycle in relation with pressure-volume changes. Write a short note on the method of determination of cardiac output by Fick's principle.

6+4